eSIGNO SYSTEM

USER MANUAL

Ingersoll Rand
Security Technologies

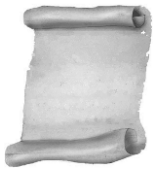
DOCUMENT VERSION HISTORY

DATE	*VERSION*	*WRITTEN BY*	*REVIEWED BY*	*APPROVED BY*	*CHANGE NOTES*
15/05/13	101	Guido Costa			First release.

This User Manual contains a complete description of the eSIGNO system features; for basic operations, please refer to the eSIGNO Quick Reference Guide (document eSIGNO_system_quick_guide).

Important Advice:
eSIGNO lock system is upgradable at any time with new software release.

In the interest of the development of our product, some features can be changed at any time without notice.



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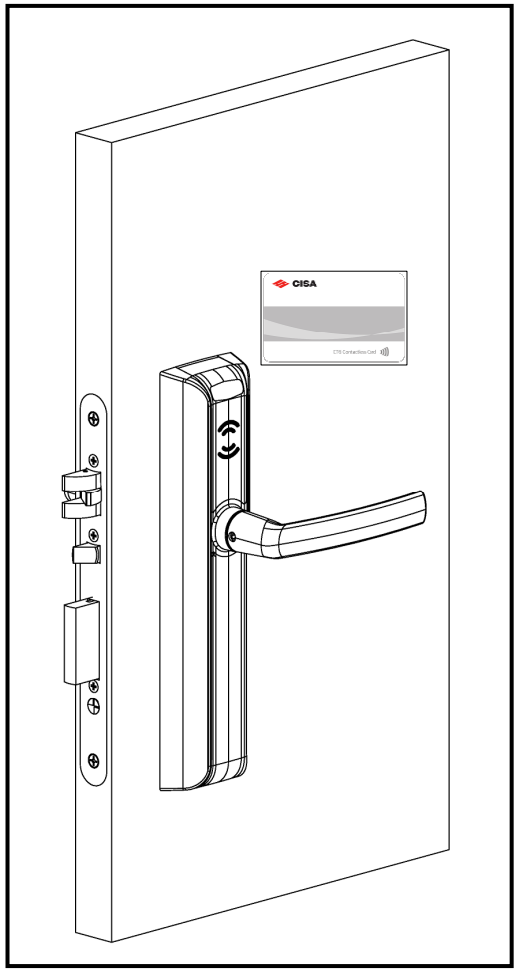
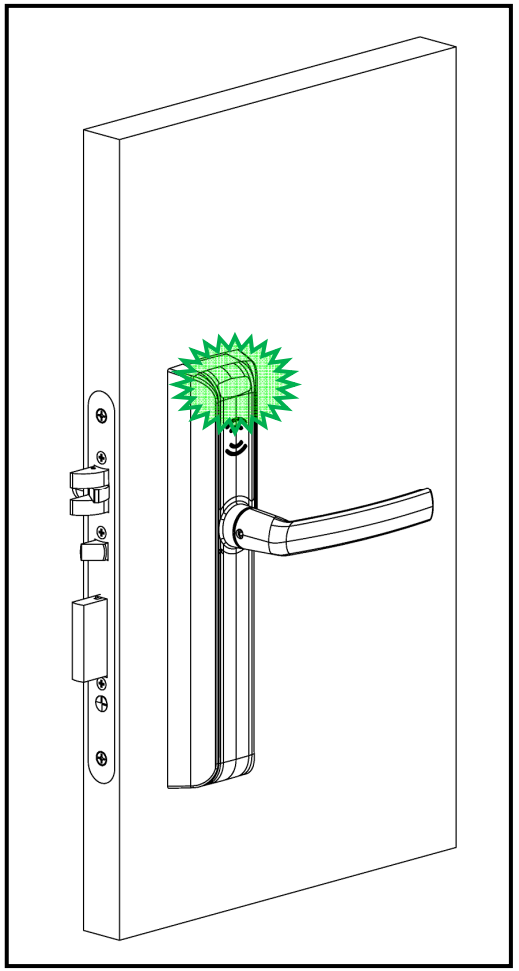
OPERATING THE eSIGNO LOCK



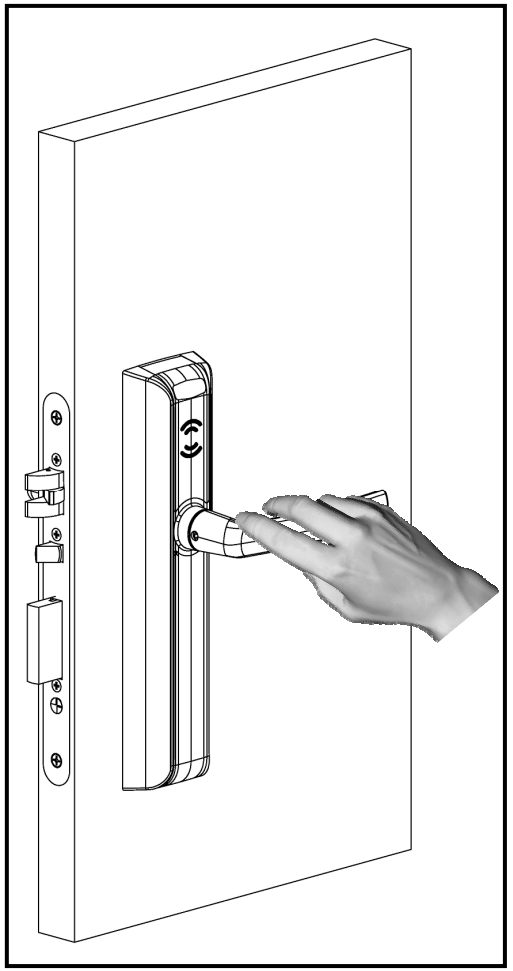
1

Keep the card close to the reader for 1 second, in order to allow a correct communication.



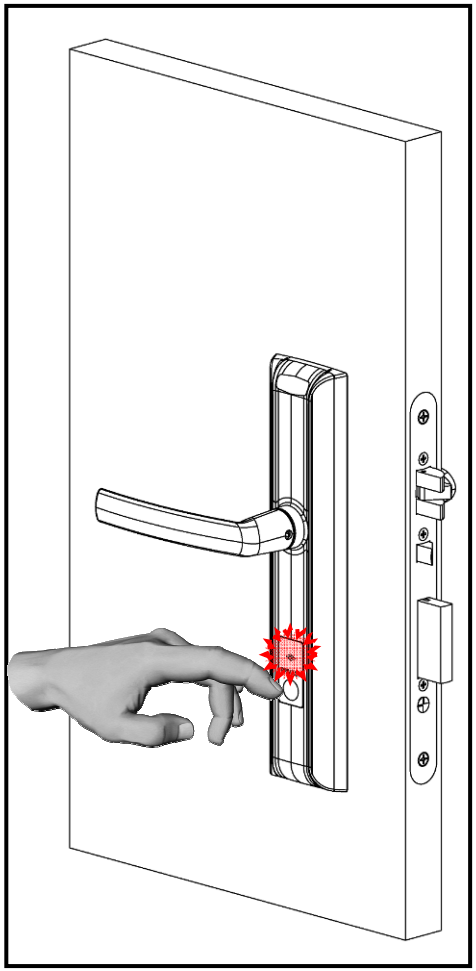
2

Wait for the lock to give green blinks: this is the signal of a correct card reading.



3

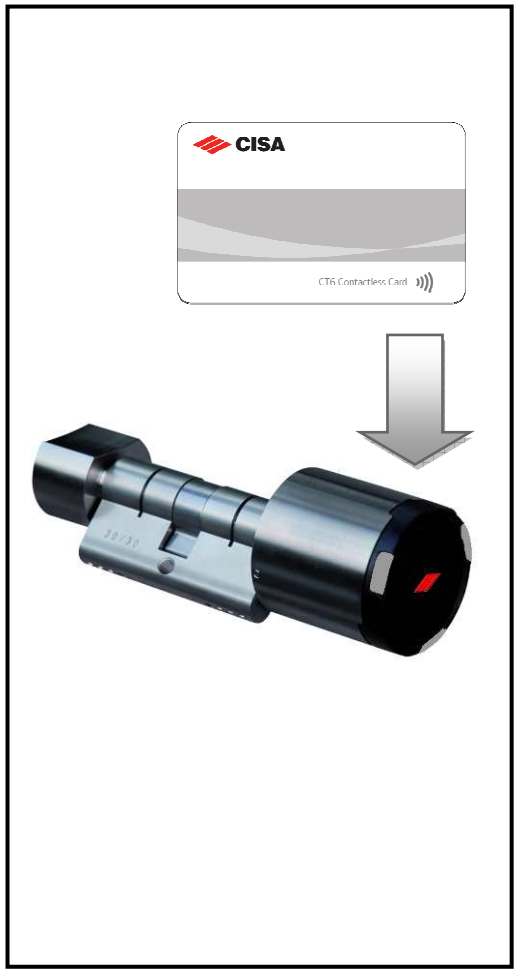
Rotate the knob/external handle, in order to open the lock, before the delay opening time expires (5 seconds default).



4

Once entered the room, if you want to enable the Privacy function, press the Do Not Disturb button, which turns red.

OPERATING THE E-CYLINDER



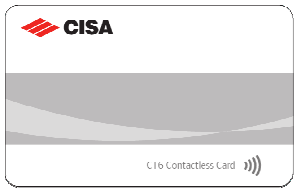
1
Keep the card close to the E-Cylinder for 1 second, in order to allow a correct communication.

2
Wait for the E-Cylinder to give green blinks: this is the signal of a correct card reading.

3
Rotate the knob, in order to open the lock, before the delay opening time expires (5 seconds default).

4
Once entered the room, to double lock the door, rotate the internal knob.

OPERATING THE WALL READER



1

Keep the card close to the wall reader for 1 second, in order to allow a correct communication.

2

Wait for the wall reader to give green blinks: this is the signal of a correct card reading. The relay activates coherently.

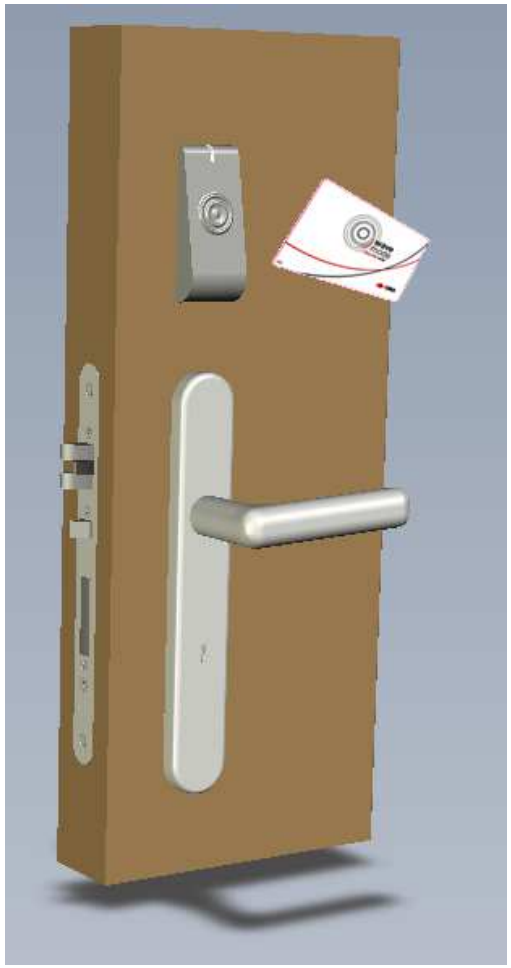
3

If the presented card is not valid, the wall reader gives three red blinks.

4

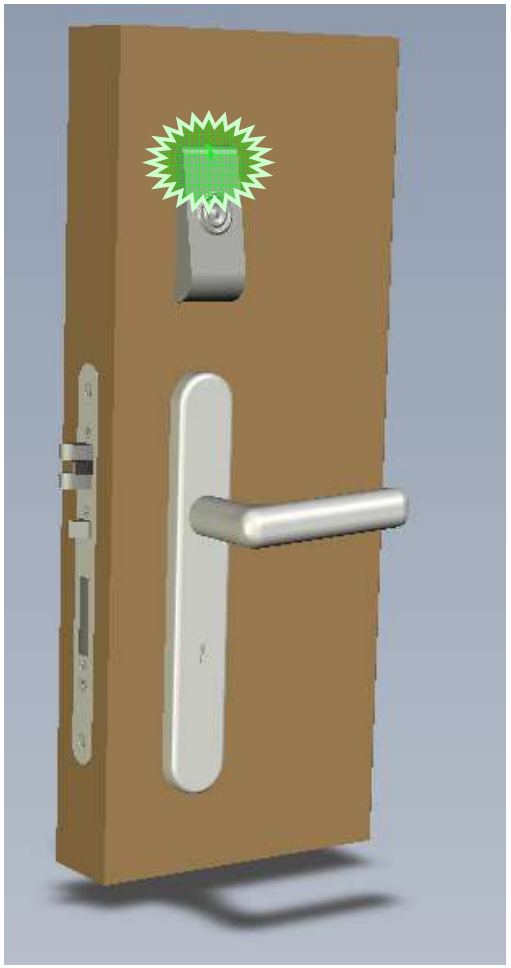
When the eSIGNO mouse is presented to the wall reader, it turns blue and purple.

OPERATING THE WAVE MODE LOCK



1

Keep the card close to the reader for 1 second, in order to allow a correct communication.

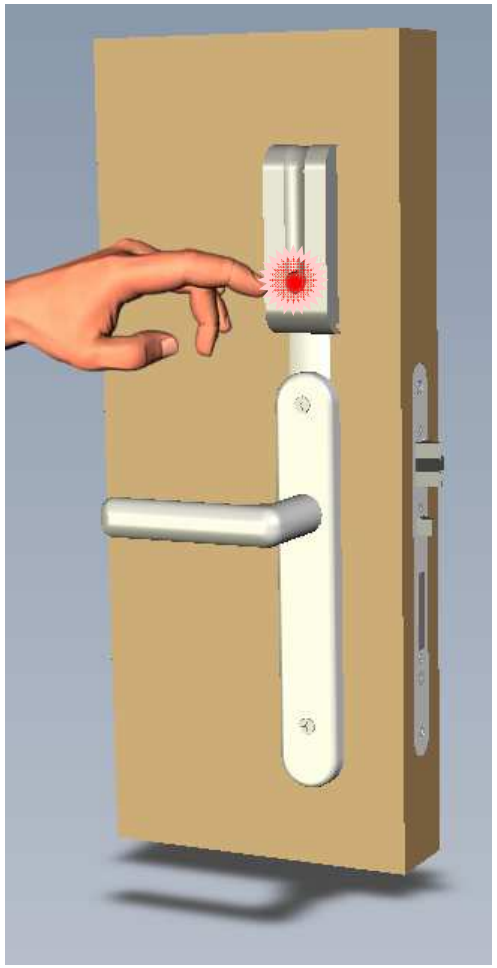


2

Wait for the lock to give green blinks: this is the signal of a correct card reading.

3

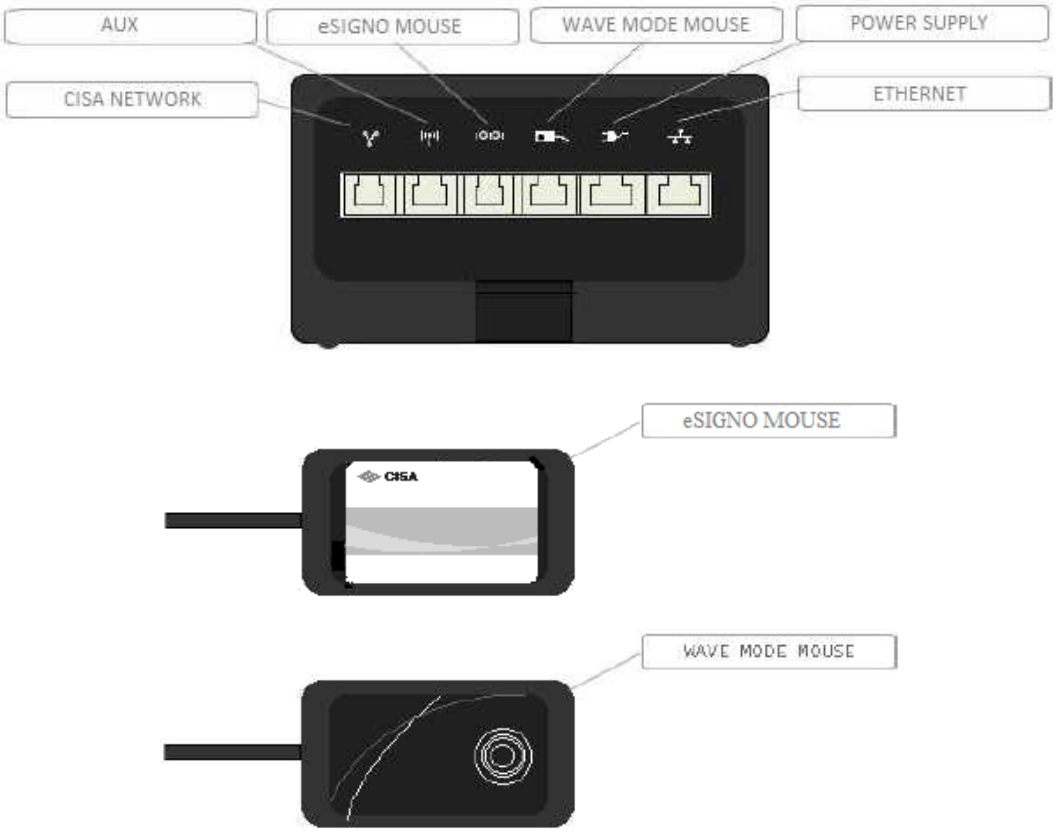
Rotate the knob/external handle, in order to open the lock, before the delay opening time expires (5 seconds default).



4

Once entered the room, if you want to enable the Privacy function, press the Do Not Disturb button, which turns red.

eSIGNO MOBILE



* Double function button : the function varies according to the device working mode

eSIGNO MOBILE DEVICE

The eSIGNO mobile can be used in two different modes:

Encoder mode: to read, issue and search for cards and to communicate with your own pc through the provided software.	HHI mode: to configure and synchronize the locks and to read the lock audit trails.

ENCODER / HHI LOGIN

Before doing any operation log on to the eSIGNO encoder with the operator card.

TIP

To change the operator password:

- log on to the encoder;
- read the operator card;
- press MENU;
- switch to Display/Modify Password with ;
- type the new password, overwriting the old one.

eSIGNO
MOBILE DEVICE

ENCODER MODE OR HHI MODE ?

When switching on the ESIGNO Mobile, before doing any operation, check if the device is in Encoder stand-by mode or in HHI stand-by mode.

ENCODER STAND-BY MODE

```
WWWAVE MODE DEMO
SERVER  #000dH00
21/01/07   15:30
<READ OPER.CARD<
```

HHI STAND BY MODE

```
WWWAVE MODE DEMO
SERVER  #000dH00
21/01/07   15:30
<READ HHI OP.C.<
```

To switch from HHI mode to Encoder mode, simply press ESC and follow the steps below:

```
HHI          #000
 09/03/09 13:50
QUIT AND
<  LOGOUT HHI  <
```

- navigate with to the Logout HHI option;
- press ENTER;
- select Yes. The ESIGNO Mobile device switches to Encoder mode;

```
CISA HOTEL
SERVER  #000dH00
 26/01/09 17:20
<READ OPER.CARD<
```

- move the operator card above the tag reader of the device;
- type your password and press ENTER: you are now logged in Encoder mode.

To switch from Encoder mode to HHI mode, simply press ESC and follow the steps below:

```
*   WARNING!   *
RISKY OPERATION!
HHI MODE LOGIN?
<     YES      <
```

- press ESC once again;
- press to answer Yes to the Are You Sure? question, then press ENTER
- press to answer Yes to the HHI Mode Login? question, then press ENTER

```
CISA HOTEL
SERVER  #000dH00
 09/03/09 14:23
<READ HHI OP.C.<
```

- move the operator card above the tag reader of the device;
- type your password and press ENTER: you are now logged in HHI mode.

KEYBOARD

The ESIGNO Mobile provides an enhanced keyboard, featuring a group of multifunctional keys whose function depends upon the cursor position and the working mode (Encoder or HHI).

eSIGNO
MOBILE DEVICE

ALPHANUMERIC KEYS

The buttons from 1 to 9 can be used to input either letters or digits in text or numeric fields:

- the first time you press one of these buttons a digit is displayed;
- with the following pressings of the same key, the letters printed on the button are then displayed;
- at the end of each sequence, another pressing of the button makes the sequence start again.

If you need to compose a word made of more than 1 character:

- select the first character by pressing the proper button;
- if the second character is listed in the same button, press → or wait 1 second for the cursor to automatically move into next position; instead, if the second character is contained in another key, simply press it to insert the character into next position;
- to erase the last character displayed, press ←;
- to leave a blank space or to move to the next position press →.

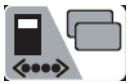
DOUBLE FUNCTION KEYS

The function of these buttons depends upon the ESIGNO Mobile working mode, i.e. Encoder (white background) or HHI (grey background).

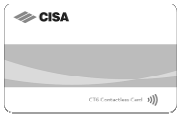
Enhanced display: to display all the card details.
Info: to retrieve information from the locks.

Check-out: to check-out the displayed guest card (this will only make the card inactive, but it will not cancel it from the database).
Synchro: used to synchronize the locks with the HHI.

Menu: to access to the encoder menu.
Audit trail readout: to read the operations performed on a lock.



Copy guest card: to quickly copy a guest card.
Print: to print information stored in memory, using a PC.



CARD TYPES

CARD TYPE	WHAT IS IT FOR
GUEST	FOR A GUEST TO ACCESS THE NORMAL LOCK OF A ROOM
STAFF	USED BY HOTEL STAFF MEMBERS
USER	TO ACCESS SPECIAL SERVICES CONTROLLED BY UTILITY LOCKS
EMERGENCY	TO BE USED IN CASE OF ENCODING STATIONS MALFUNCTION
DANGER	TO BE USED IN CASE OF DANGER, OPENS ALL THE DOORS
REVERSE DANGER	TO REVERSE DANGER FUNCTION
LOCKOUT	TO LOCK OUT DIFFERENT CARD CATEGORIES
REVERSE LOCKOUT	TO REVERSE LOCKOUT FUNCTION
ONE SHOT	TO BE USED FOR MAINTENANCE, OPENS THE DOOR ONLY ONCE
CLC	TO INSERT IN LOCK MEMORY OTHER CARDS, WHICH WILL OPEN DOOR
OPERATOR	TO WORK WITH THE ENCODING STATION

ENCODER MODE CARD OPERATIONS

GUEST (1)

A guest card does not contain only essential information like room number, guest name and stay duration: many other features can be inserted into it, depending on the necessity:

- Opening up to 4 doors with the same guest card;
- Regulating the use of hotel utilities;
- Enabling particular functions;
- Setting the time validity of the card.

TIP

- In order to issue more copies of the same guest card, move the cursor in the # field and type in the number of copies desired. The Current copy number field says which copy the physical card represents.
- To prepare cards in advance, simply change the beginning and end of validity dates.

ENCODER MODE CARD OPERATIONS

1

```
GUEST FOR

21/01/07    15:30
 < READ CARD <
```

Type the room number, the guest stay duration, the number of needed copies and the guest's name, pressing ↓☰ after each field.

2

```
GUEST FOR  101
DAYS       ▶   10
#    1      NAME
```

To change other parameters, press 🔍

3

```
NAME
           POPEYE
FOR         (1)
              101
AND FOR     (2)

AND FOR     (3)

AND FOR     (4)

CATEGORY

DAYS
                1
FROM  [DD/MM/YY]
         20/01/09
FROM TIME[HH:MM]
            15:15
EXPIR.[DD/MM/YY]
         10/01/09
EXPIRING [HH:MM]
            12:00
CANCELLATION
       N0
```

Navigate through the fields by pressing ↓☰

◁ To issue a card which opens the correspondent door(s) also if the privacy is on, change this value.

◁ Setting "Yes" in this field, you can activate the Office function.

◁ To issue a card to open up to 4 doors, insert the doors numbers in this point.

◁ If the guest has the right to access some particular hotel utilities, type here the name of the correspondent category.

◁ This is the number of credits the guest can spend using utilities inside the hotel.

◁ By enabling this voice, it is then possible to register the operations of the card.

◁ By changing these values, you can set the time validity of the card you are issuing.

```
CURRENT COPY NR.
                1
TOTAL COPIES NR.
                1
OVERRIDE PRIVACY
        YES
OFFICE FUNCTION
        NO
CARD SERIAL NR.
                0
OPERATOR CARD NR
                1
OPERATOR TYPE
      ENCODER
CREDITS
                0
CARD HIST.ENABLE
        NO
VALID. DELAY [H]
                0
CARD SUSPENDED
        NO
CARD TYPE
    GUEST
```

Confirm your choices by pressing ENTER

4

```
GUEST FOR  101
DAYS         1
- 001
<  WRITE CARD  <
```

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

GUEST (2)

Beds function *is a special configuration that allows issuing up to 7 guest cards for the same room with different time validities.*
Every new guest card for a bed invalidates the previous one for the same bed; every new guest card for the whole room invalidates all the guest cards for the single beds.
This feature is available only if it has been set in the Configurator during plant installation.

TIP

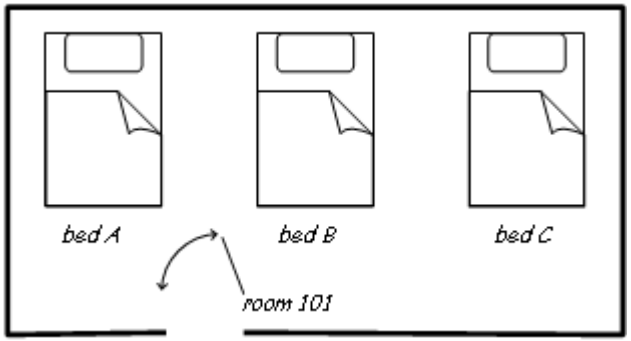
It is very important to understand the difference between:

- **Card Copies**: *they always have the same validity and when one card opens a door, the copies will open it as well;*
- **Cards associated to Beds**: *they can have different time validity, and be checked out or cancelled separately.*

ENCODER MODE CARD OPERATIONS

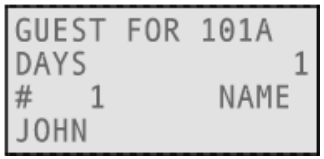
BEDS FUNCTION

EXAMPLE

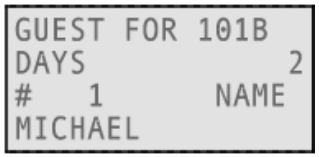


Monday

Here is what the receptionist has to do to correctly use the beds function:



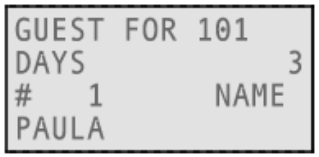
John checks in on Monday till Tuesday (at 12:00); he takes the bed A in the room 101.



Michael checks in on Monday till Wednesday (at 12:00); he takes the bed B in the room 101.

Both John and Michael can access simultaneously the room 101 during their card time validity without invalidating their own cards each other.

Tuesday



Paula checks in for 3 days into room 101, but she would like to have the whole room for herself.

When Paula uses her card in the lock 101, she invalidates John's and Michael's card.

STAFF CARDS (1)

Once logged into the system, to write staff cards, press and select STAFF FOR.

TIP

To create a Staff card, you have to define:

- the Zones and the doors that belong to them while creating the plant.
- the hierarchy level to define the rights of the operator (e.g. level 6 operator can write guest cards only)

1

```
STAFF FOR

12/02/07   11:40
<   READ CARD   <
```

Type the zone the card will be valid for, the days of validity and the name of the staff member, pressing ↓☰ after each field.

2

```
STAFF FOR ZONE 1
DAYS           90
             NAME▶
SHARON
```

To change other parameters, press

3

```
NAME
           POPEYE
FOR         (1)
           FLOOR1
CATEGORY

DAYS
              90
FROM  [DD/MM/YY]
        21/01/09
EXPIR.[DD/MM/YY]
        21/04/09
BEG. 1ST [HH:MM]
           00:00
END  1ST [HH:MM]
           06.00
BEG. 2ND [HH:MM]
           15:00
END  2ND [HH:MM]
           19:00
WEEKDAYS VALID.
          XXXXX--
BEG.1(2) [HH:MM]
           00:00
...
```

Navigate through the fields by pressing ↓☰

This is Staff type (1 to 4), assigned depending on the selected zone.

To issue a card which opens the door(s) also if the privacy is on, change this value.

Enable to activate the Office function inserting the card twice into an Office lock.

By setting these fields you can manage the time validity of the card you are issuing.

To set working time and days: there are 4 time modules; inside each, it is possible to set 2 working periods for each day of module's validity with 15 minutes precision (card is valid in X-marked days only).

This field is active only if the Recoding Function is active. After setting Yes in this field, it is then possible to recode the card.

```
STAFF/USER TYPE
               4
CANCELLATION
      NO
OVERRIDE PRIVACY
      NO
OFFICE FUNCTION
      NO
CARD SERIAL NR.
               0
OPERATOR CARD NR
               1
CARD HIST.ENABLE
      NO
VALID. DELAY [H]
               0
CARD SUSPENDED
      NO
TO DO CARD
      NO
CARD TYPE
  STAFF/USER
```

Confirm your choices by pressing ENTER

4

```
STAFF FOR ZONE1
DAYS           90

 < WRITE CARD <
```

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

ENCODER MODE CARD OPERATIONS

STAFF CARDS (2)

Once logged into the system, to write staff cards, press and select STAFF FOR.

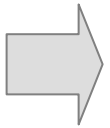
TIP

One zone is created by default in every plant: the MASTER zone, which includes all the locks in the hotel. A Staff card for MASTER zone has the Override privacy function disabled by default.

ENCODER MODE CARD OPERATIONS

STAFF CARD VALIDITY

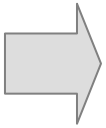
MON	TUE	WED	THU	FRI	SAT	SUN
08:00 – 12:15						
18:00 – 24:00						



```
BEG. 1ST [HH:MM]
              08:00
END  1ST [HH:MM]
              12.00
BEG. 2ND [HH:MM]
              18:00
END  2ND [HH:MM]
              23:45
WEEKDAYS VALID.
             XXX----
```

Validity precision is 15 minutes:

- the encoding station rounds to the previous 15 minutes: 12:13 becomes 12:00
- the end of validity includes the following 15 minutes: first shift starts at 08:00 and will end at 12:15 second shift starts at 18:00 and will end at 24:00
- if the beginning and the end of validity time are both the same, there is no validity. To have a card with 24 hours of validity, it is necessary to considerate the time span of 15 minutes



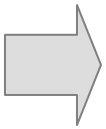
~~BEG. 1ST [HH:MM] 00:00 END 1ST [HH:MM] 00:00~~

```
BEG. 1ST [HH:MM]
              00:00
END  1ST [HH:MM]
              23:45
```

WORKING HOURS OVER MIDNIGHT

MON 1	TUE 2	WED 3	THU 4	FRI 5	SAT 6	SUN7

Date of validity: 1 May 2007 from time 18:00
Date end validity: 7 May 2007 until time 06:00



```
FROM  [DD/MM/YY]
              01/05/07
EXPIR.[DD/MM/YY]
              07/05/07
BEG. 1ST [HH:MM]
              18:00
END  1ST [HH:MM]
              05.45
WEEKDAYS VALID.
             XX--XXX
```

TYPES OF STAFF

- The type (possibilities are 1,2,3,4) is assigned automatically from the system and depends upon the Zone that is assigned to the card.
- Type is important with the LOCKOUT CARDS in order to select which one has to be blocked.
- STAFF type 3 is also able to have the TIDY UP function. Operators are STAFF type 4.

USER CARDS

Once logged into the system, to write user cards, press and select USER FOR.

TIP

To create a User card, you have to define the Categories and the Utility doors that belong to them.

ENCODER MODE CARD OPERATIONS

1

```
USER FOR

 21/01/09 16:46
 < READ CARD <
```

Type the category the card will be valid for, the days of validity and the name of the user, pressing after each field.

2

```
USER FOR CAT1
DAYS            3
            NAME
JOHN
```

To change other parameters, press

3

```
NAME
              JOHN
CATEGORY
              CAT1
DAYS
                90
FROM  [DD/MM/YY]
          21/01/09
EXPIR.[DD/MM/YY]
          21/04/09
BEG. 1ST [HH:MM]
             00:00
END  1ST [HH:MM]
             06.00
BEG. 2ND [HH:MM]
             15:00
END  2ND [HH:MM]
             19:00
WEEKDAYS VALID.
          XXXXX--
...
```

Navigate through the fields by pressing

◁ This is the previously selected Category.

All the other fields are the same with respect to Staff cards.

Confirm your choices by pressing ENTER

```
STAFF/USER TYPE
                1
CANCELLATION
       NO
OVERRIDE PRIVACY
       NO
OFFICE FUNCTION
       NO
CARD SERIAL NR.
                0
OPERATOR CARD NR
                1
CARD HIST.ENABLE
       NO
VALID. DELAY [H]
                0
CARD SUSPENDED
       NO
TO DO CARD
       NO
CARD TYPE
  USER
```

4

```
USER FOR CAT1
DAYS            3

 < WRITE CARD <
```

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

OPERATOR CARDS

Once logged into the system, to write operator cards, press and select OPER. PWD.
An Operator card allows the operator to work on the encoding station; depending on the Hierarchy, he will be enabled to use particular functions. If the card is allowed to access the locks, it will have the same features as a STAFF card with type 4.

TIP

It is possible to disable a staff or operator card to access a room by putting it on the black list, keeping the cancellation card close to the lock.
Creating the cancelling card for an operator automatically disables the operator card to work on the encoding station.

ENCODER MODE CARD OPERATIONS

1

```
OPER. PSW

12/02/07    12:30
<  READ CARD  <
```

Type the chosen password, the hierarchy level of the card and the operator name, pressing after each field.

2

```
OPER. PSW
        0
HIERAR.  6  NAME
PIPPO
```

To change other parameters, press

3

```
NAME
            PIPPO
PASSWORD
         ********
HIERARCHY
               6
FOR

CATEGORY

DAYS
             365
FROM  [DD/MM/YY]
          21/01/09
EXPIR.[DD/MM/YY]
          21/01/10
BEG. 1ST [HH:MM]
            00:00
END  1ST [HH:MM]
            23:45
BEG. 2ND [HH:MM]
            00:00
END  2ND [HH:MM]
            00:00
WEEKDAYS VALID.
           XXXXXXX
BEG.1(2) [HH:MM]
            00:00
...
```

Navigate through the fields by pressing

To issue a card which opens the door(s) also if the privacy is on, change this value.

Enable to activate the Office function inserting the card twice into an Office lock.

By setting these fields you can manage the time validity of the card you are issuing.

To set working time and days: there are 4 time modules; inside each is possible to set 2 working period for each day of module's validity with 15 minutes precision (card is valid in X-marked days).

This field is active only if the Recoding Function is active.

```
CANCELLATION
        NO
OVERRIDE PRIVACY
        NO
OFFICE FUNCTION
        NO
CARD SERIAL NR.
               0
OPERATOR CARD NR
               1
CARD HIST.ENABLE
        NO
VALID. DELAY [H]
               0
CARD SUSPENDED
        NO
LINK TO DO CARD
               0
TO DO CARD
        NO
CARD TYPE
  OPERATOR
```

Confirm your choices by pressing ENTER

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

EMERGENCY CARDS

Once logged into the system, to write emergency cards, press and select EMERG. FOR
An Emergency card opens the door for which it has been programmed, withdrawing even the deadbolt, should the guest have drawn it on privacy. These cards can be created only for a single room.

TIP

One card for each guest room should be kept at the reception desk safety box and should be used only in case the encoding system fails, giving it to the guest and must be taken back upon check-out.
An emergency card with a later beginning of validity will invalidate the previous one when approached to the lock.

ENCODER MODE CARD OPERATIONS

1

```
EMERG.FOR

 21/01/09 16:46
 < READ CARD <
```

Type the number of the room you are issuing an emergency card for and date and time of beginning of its validity, pressing after each field.

2

```
EMERG.FOR 101
DATE    21/01/09
TIME        16:46
```

To change other parameters, press

3

```
CARD TYPE
  EMERGENCY
FOR         (1)
             101
CATEGORY

DAYS
           15.684
FROM  [DD/MM/YY]
         21/01/09
FROM TIME[HH:MM]
            16:58
EXPIR.[DD/MM/YY]
         31/12/51
EXPIRING [HH:MM]
            23:59
CARD SERIAL NR.
                0
OPERATOR CARD NR
                1
```

Navigate through the fields by pressing

It is possible to issue also emergency cards for categories, to be used in the same cases of a room emergency card.

By setting these fields you can manage the time validity of the card you are issuing. Note that an emergency card has an infinite validity.

Confirm your choices by pressing ENTER

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

AUTOMATIC CREATION OF EMERGENCY CARDS SET

- start from a room number (e.g. 101);
- encode the card;
- press ENTER (the system will automatically present as input the following room);
- press ENTER to encode the next card.

LOCKOUT / REVERSAL LOCKOUT CARDS

This kind of card permits to lock out (or reverse lock out) other different card categories, like guest or staff cards. Once logged into the system, to write lock out (or reverse lock out) cards, press and select LKOUT FOR (or REV.LOCK.).

TIP

These cards can be created only for a specified zone of lockout. If you lock out all card types, the only one allowed to enter is an emergency card.

1

```
LKOUT FOR

 21/01/09 16:46
 < READ CARD <
```

Type the zone the card will be valid for and the days of validity, pressing after each field.

2

```
LKOUT FOR 101
DAYS 365
```

To change other parameters, press

3

```
FOR          (1)
                101
CATEGORY

DAYS
               365
FROM  [DD/MM/YY]
         21/01/09
FROM TIME[HH:MM]
            16:58
EXPIR.[DD/MM/YY]
         21/01/10
EXPIRING [HH:MM]
            23:59
BLOCK/UNBLOCK
             X----
CARD SERIAL NR.
                 0
OPERATOR CARD NR
                 1
CARD TYPE
  LOCKOUT
```

Navigate through the fields by pressing

By setting these fields you can manage the time validity of the card you are issuing.

The card groups which can be locked out (or reverse locked out) are:

- Guest
- Staff 1
- Staff 2
- Staff 3
- Staff 4 and Operators

In a lockout (reverse lockout) card, X indicates the kind of cards you are able to block (unblock).

To change values, move with and select (or unselect) with

Confirm your choices by pressing ENTER

4

```
LKOUT FOR 101
DAYS 365

 < WRITE CARD <
```

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

ENCODER MODE CARD OPERATIONS

ONE SHOT CARDS

These cards are issued in special cases (needed maintenance inside a room) and allow to open the door only once. Once logged into the system, to write One Shot cards, press and select 1SHOT FOR.

1

```
1SHOT FOR

 21/01/09 16:46
< READ CARD <
```

Type the room number or the zone and the days of validity, pressing after each field. To change other parameters, press

2

```
1SHOT FOR 101
DAYS          10
```

The time validity specifies the duration of the card; it will, however, open the correspondent lock only once.
Confirm your choices by pressing ENTER
Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

DANGER / REVERSAL DANGER CARDS

- **Danger card**: opens all the doors (overriding the privacy as well) and keeps the locks in the opening state until a reversal danger card is kept close to them. This allows guest and staff to get out quickly in events of danger and prevents the door from closing;
- **Reversal Danger**: reverses danger function.
- Once logged into the system, to write these cards, press and select DANG. FOR or REV.DANG.

1

```
DANG. FOR

 21/01/09 16:46
< READ CARD <
```

Press any numeric button, then and finally the days of validity.

2

```
DANG. FOR MASTER
DAYS          365

 < WRITE CARD <
```

It is possible to issue Danger (or Reverse Danger) cards for the Master zone only, which means that these cards are valid for all the rooms.
By setting these fields you can manage the time validity of the card you are issuing.

A newly created card of both types invalidates the previous one if it is approached to the locks.
Confirm your choices by pressing ENTER

Move the card over the tag reader/writer on the encoder and wait for the short beep.

Card writing is now completed!

ENCODER MODE CARD OPERATIONS

CLC CARDS

This kind of card permits the access of a lock's memory and the memorization of any other card, encoded by the CISA system, onto it. In this way the door will be enabled to open with the new contactless card memorized in the lock. Once logged into the system, to write CLC cards, press [ ] and select CLC FOR.

TIP

This function is useful for example when a guest has an his own contactless card (of another hotel or of other systems) and he wants to open with his card without having a new one.

ENCODER MODE CARD OPERATIONS

1

```
CLC FOR

 21/01/09 16:46
< READ CARD <
```

Type the zone the card will be valid for and the days of validity, pressing [↓☰] after each field.

2

```
CLC FOR    MASTER
DAYS          365
```

To change other parameters, press [ ]

Navigate through the fields by pressing [↓☰]

3

```
FOR          (1)
           MASTER
CATEGORY
DAYS
              365
FROM  [DD/MM/YY]
         21/01/09
FROM TIME[HH:MM]
             17:03
EXPIR.[DD/MM/YY]
         21/01/10
EXPIRING [HH:MM]
             23:59
CARD TYPE
  CLC
```

◁

- CLC cards can be created only for a specified zone.
- Up to three different cards can be memorized as guest cards with CLC card on each lock: if you attempt to memorize the fourth card, the lock will display three red blinks.
- To disable the memorized cards it is necessary to keep a new guest card close to the lock (with start of validity later than the time of memorization), created from the encoding station.

Confirm your choices by pressing [ENTER]
Move the card over the tag reader/writer on the encoder and wait for the short beep

Card writing is now completed!

HOW TO MEMORIZE A CARD WITH A CLC

- Keep the CLC close to the lock, which responds with 2 green blinks;
- keep the card to be memorized close to the lock, which responds with 2 red & green blinks (this will be recorded as memorized cards on the history readout.);
- to add more cards repeat the same operation.

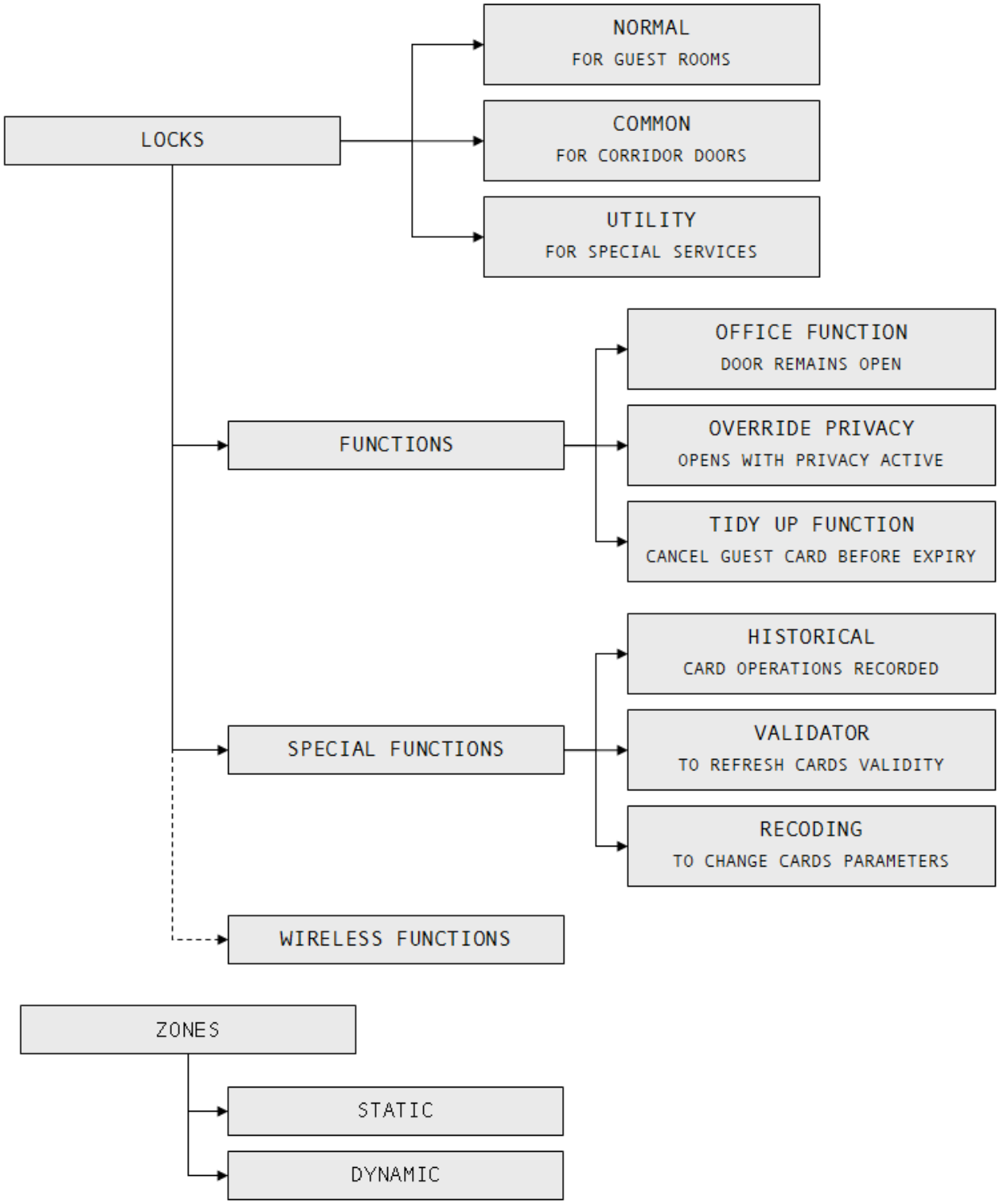
MANAGING SPECIAL GROUPS

Example: students + professor.
The professor is allowed to enter all the student rooms, but students can only enter individual rooms: to accomplish this, in each room, memorize the professor card and the specific student card.

ACCESS TARGETS: LOCKS & ZONES

This chapter will present the different types of **Locks**, along with their features and functions, and the concept of **Zones**.

ACCESS TARGETS



LOCK TYPES

NORMAL

A lock for a normal guest room, presents the following features:

- with **Guest Cards**:

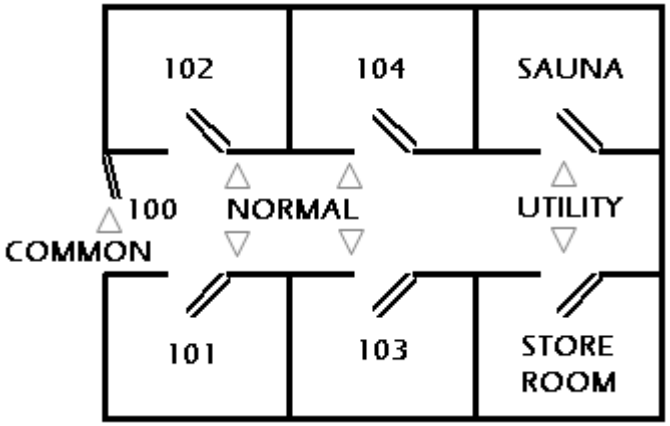
only a guest card (or copies of the same) can have access to it, provided that the following parameters and features are met: plant code, door number, date and time validity, card not invalidated by another guest card having a later beginning date of validity, guest card not locked out, card not cancelled;

- with **Staff Cards**:

any staff card is enabled if the lock is in the zone in which the card is allowed, provided that the following parameter and features are met: plant code, door belonging to the zone of the card, date and time (as working hours) validity, guest not in privacy, staff card not locked out, card not cancelled (up to 20 staff cards can be cancelled).

TIP

Examples of cases of use of the three lock types can be seen in the figure below.



COMMON

This kind of lock can be installed to doors giving access to more rooms, on which normal doors are installed (e.g. corridor door). When initializing the system, a range of door numbers (normal locks) will be assigned to the common door. Features of the common doors are:

- with **Guest Cards**:

any guest card can have access to it, provided that it has been coded for a door falling within the interval that has been set when configuring the topological structure. The parameters and features are the same of a normal door, except that a later guest does not invalidate an earlier one and that there's the possibility to cancel up to 20 guest card plus 20 staff card;

- with **Staff Cards**:

any staff card can have access if the lock belongs to its zone. Parameters which are controlled do not change as compared to those mentioned with reference to normal lock.

ACCESS TARGETS

UTILITY

These are the locks that give access to special areas or areas of payment in a given plant. It is possible to associate an utility lock with every additional service offered by the hotel (e.g. sauna, garage, fitness room), up to 1024 in eSIGNO plants and 2032 in eSIGNO Extended plants.
The utility doors can be grouped in categories, presented in the following chapter. Therefore, each card is marked by the name of the normal locks it can open and by the category of services it can have access to.

LOCK FUNCTIONS

OFFICE FUNCTION

When this function has been programmed into a lock, a valid card with Office Function enabled approached to the lock has the ability to put it in hold open position.
During the plant configuration, it is possible to choose one of the two following working modes for the Office Function:

- Normal Mode: to put the lock in office mode, you need to approach twice the card. To exit from this mode, approach the card again twice;
- Toggle Mode: just keep once the card close to the lock to toggle the office function.

OVERRIDE PRIVACY

Privacy function is a useful function for guests inside their room, who can prevent other valid cards from opening the room door, simply by pressing the Do Not Disturb button on the inner side of the lock. However, it is possible to select if a card can Override the Privacy function, by enabling this feature.

- Guest cards have default override privacy;
- Staff cards don't have this function enabled by default but it is possible to create Staff cards with override privacy.

TIDY UP FUNCTION

If this function is programmed into the lock during installation, a type 3 Staff card can disable an active guest card from the lock. These are the steps to be followed to use the Tidy Up Function:

- keep the type 3 Staff card close to the lock, which opens;
- keep the type 3 Staff card close to the lock again; the lock gives 1 red & 1 green blink;
- keep the type 3 Staff card close to the lock again; the lock gives 4 red & 4 green blinks;
- now the guest card is written in the black list and it is no more allowed to enter the room.

This function is useful in case the staff has already cleaned the room at 10:00 am because the guest has already checked out, but his card is still valid until 12:00 (default checkout time).

ACCESS TARGETS

LOCK
SPECIAL FUNCTIONS

HISTORICAL FUNCTION

If this function has been enabled, each operation made by the card is recorded on its own memory. Once the memory of the card has been written it is possible to download the list of the operations with the ESIGNO Mobile in encoder mode.
During the installation of the plant it's possible to choose two different history recording modalities:

- Not rewritable: the card can record up to 30 operations. If the memory of the card is full and you pass it on the lock, it will give you three red blinks: in this case, you have to download the history of the card with the ESIGNO Mobile in encoder mode, using the Load Card History menu. In this case, each time you have access to an online special lock (e.g. the hotel main entrance), it will upload the history of the card in order not to lose records.
- Rewritable: the thirty-first operation will be recorded, but it will overwrite the first record. The same will happen for the subsequent records.

VALIDATOR FUNCTION

This function is active only if, during the configuration of the special lock, the validation function has been enabled.
Validation is a special function that allows to have further control on the validity of issued cards.
In the moment of issuing guest, staff and operators cards, it is possible to set a validation delay: inside this period of time, the owner of the card has to pass it on a special door (which has been initialized as Validator), in order to refresh the validity of the card. If the validation time has expired and the card has not been presented to the special lock, the access rights of the card are not valid anymore: to recover these rights, the card has to be presented to the validator.

RECODING FUNCTION

This particular function allows you to change some parameters of staff and user cards (e.g. validity, access targets) without using the encoder but rather through the reader connected to an online special lock.

- An operator, using the encoder, sends a recoding command to the special lock (e.g. the hotel main entrance), configured as Validator with the recoding function enabled.
- When the staff (or user) card is read by the reader connected to the special lock, the parameters of the card will change in compliance with the instruction given by the recoding command.

To use the recoding function, it is necessary to enable the validation function during the initialization of the special lock.

ACCESS TARGETS

LOCK
WIRELESS FUNCTIONS

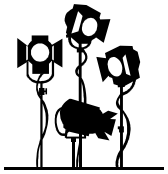
REMOTE SYSTEM MANAGEMENT

FUNCTION	eSIGNO WIRELESS
Audit trail retrieval	Access data is available at the central computer: no limits imposed on data storage in stand-alone locks (latency time: 1min)
Staff card cancellation	The individual staff card can be cancelled from the lock by wireless connection from reception (latency time: 10min)
Staff Monitoring	A report can be generated automatically to show all accesses by an employee to any room, a group of rooms or all rooms (latency time: 1min)
Remote door opening	Possibility to open the lock by remote command (latency time: 1min)

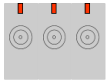
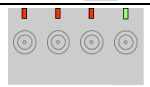
REMOTE DIAGNOSTIC AND MAINTENANCE

FUNCTION	eSIGNO WIRELESS
Door status	If door is left open for more than a pre-set time, a special alert can be issued at the security office (latency time: 1 min)
Low battery status	The battery level for wireless locks is reported to the computer terminal on each event on the lock
Accurate timekeeping	Automatic lock synchronization from central station (once a day). Daylight saving time and Holidays tables (once a week).
Lock settings and diagnostics	Possibility to perform remote operations: read hardware information, change lock parameters as opening time, autoprograms, lockout (latency time: 1 min)
Wireless field quality	The wireless field quality for wireless lock is reported to the engineering computer terminal on each event on the lock
Wireless Analyser tool	Installation tool (eSIGNO Mobile + Analyser antenna) to perform wireless field analysis for plant installation and maintenance.

ACCESS TARGETS



LOCK
VISUAL SIGNALS

1 GREEN		Door already in office or danger status
2 GREEN		Function executed successfully (block, synchronization, office on, reset, etc.)
5 GREEN		Opening enabled
10 GREEN	10x	Lock not initialized
1 RED		Reading error. If repeated every 3 seconds: **Privacy active** (also on Cisa logo near the privacy button on internal side)
3 RED		Card not valid (expired, invalidated by a new one, etc.)
6 RED	6x	Device not synchronized
3 RED + 1 GREEN		Card temporarily not valid (blocked, out of the working hours, guest in privacy)
3 GREEN + 1RED + 2 GREEN		Initialization OK
1 RED&GREEN		Operation in progress (followed by 2 green or 2 red depending on the result)
3 RED&GREEN		Low battery (Staff cards only)
4 RED&GREEN		Function of card in sequence executed successfully
10 RED&GREEN	10x	Delayed close (Staff cards only, if DPR is enabled)
12 RED&GREEN	12x	End battery
20 RED&GREEN	20x	Tampering: DPR circuit disconnected (Staff cards only)
1 BLUE		Communication with HHI via mouse in progress

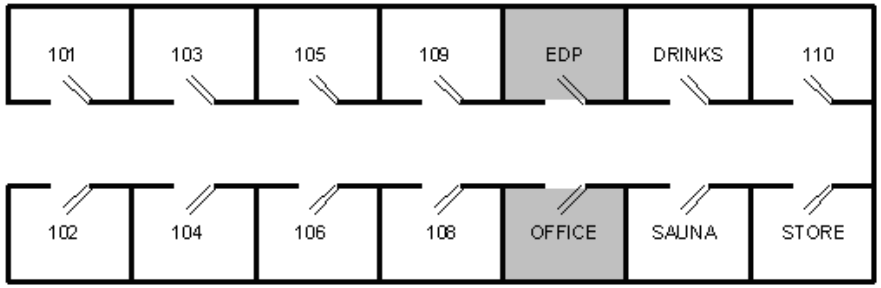
ACCESS TARGETS

ZONES (1)

STATIC ZONES

Groups of locks defined during system configuration.

Example 1



FLOOR1	101 - 110
FLOOR2	201 - 209
FLOOR3	301 - 309
MASTER	All rooms
ADMIN	OFFICE + EDP
GUESTS	All guests rooms

```
STAFF FOR FLOOR1
DAYS          90
              NAME
PAULA
```

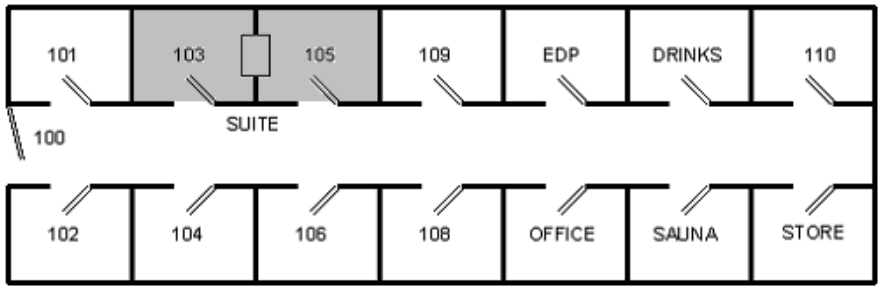
A zone can be an input for any card: with this card a staff member will open all the locks in the FLOOR1 zone (room 101 to 110).

```
STAFF FOR  ADMIN
DAYS          90
              NAME
MS.SMITH
```

With this card, a staff member will open the locks into the ADMIN zone i.e. rooms OFFICE and EDP. There are two additional features:

- Override Privacy: card opens also if the colleagues are closed inside;
- Office Function: inserted twice, card will put the lock in office mode.

Example 2



FLOOR1	101 - 110
MASTER	All rooms
ADMIN	OFFICE + EDP
GUESTS	All guests rooms
SUITE	103 + 105
MINBAR	Guest rooms + DRINKS

```
GUEST FOR SUITE
DAYS          10
#   1     NAME
PRINCESS MIKA
```

With this card, a guest will open the SUITE zone (rooms 103 and 105); alternatively one card can be issued only for 103 and one card only for 105. Remember that a latest card always invalidates an earlier one.

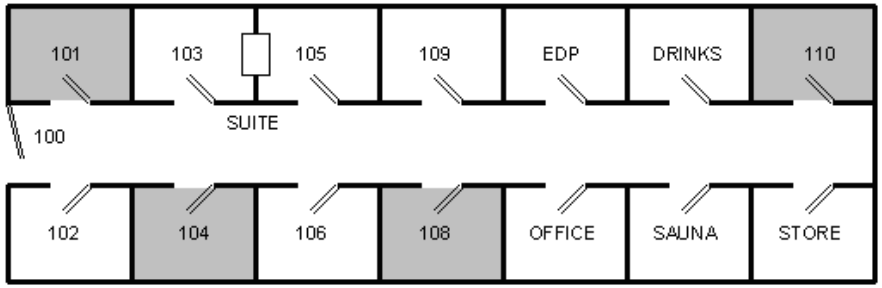
ACCESS TARGETS

ZONES (2)

DYNAMIC ZONES (FOR GUESTS)

Groups of locks defined, for guests only, upon need at the check-in time.

Example



FLOOR1	101 - 110
FLOOR2	201 - 209
FLOOR3	301 - 309
MASTER	*All rooms*
ADMIN	OFFICE + EDP
GUESTS	*All guest rooms*

```
NAME
MR.ANDERSON
FOR     (1)
          101
AND FOR (2)
          104
AND FOR (3)
          108
AND FOR (4)
          110
...

CARD TYPE
  GUEST
```

◁ Up to 4 completely independent doors can be selected.

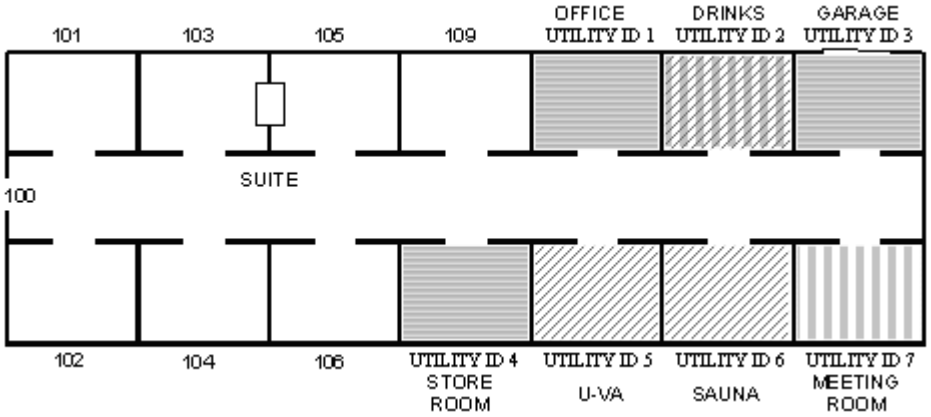
◁ *All the other information about the card.*

ACCESS TARGETS

CATEGORIES

Categories *are groups of utility doors: it is possible to create several categories according to hotel management's different needs.*
After having defined a utility pattern, it is possible to use it more times for different cards; in this way, the receptionist doesn't need to redefine the utility lock map each time he/she issues a new card.

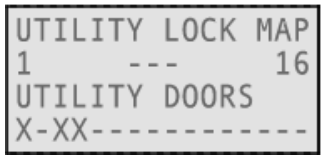
Example



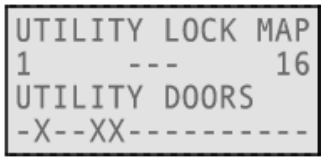
1 keyplan
3 kinds of card holders:
- Hotel staff member
- Tourist
- Business man

UTILITIES ID MAP

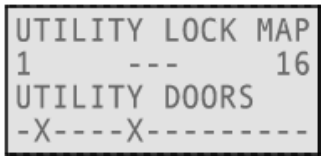
1	2	3	4	5	6	7
OFFICE	DRINKS	GARAGE	STORE	UVA	SAUNA	MEETING



HOTEL Category
Used by hotel staff members, includes Office, Garage and Store Room.



TOUR(ist) Category
It can be used for all the guests who should have access to the hotel extra services (in this case Drinks, UVA and Sauna).



BUSIN(ess) Category
This category allows access to business-related services (in this case Drinks and Meeting Room).

TIP

Categories can be created:
- from the Category Manager Menu of the eSIGNO Mobile in encoder mode;
- from the appropriate form in the Smart Software.

CATEGORIES

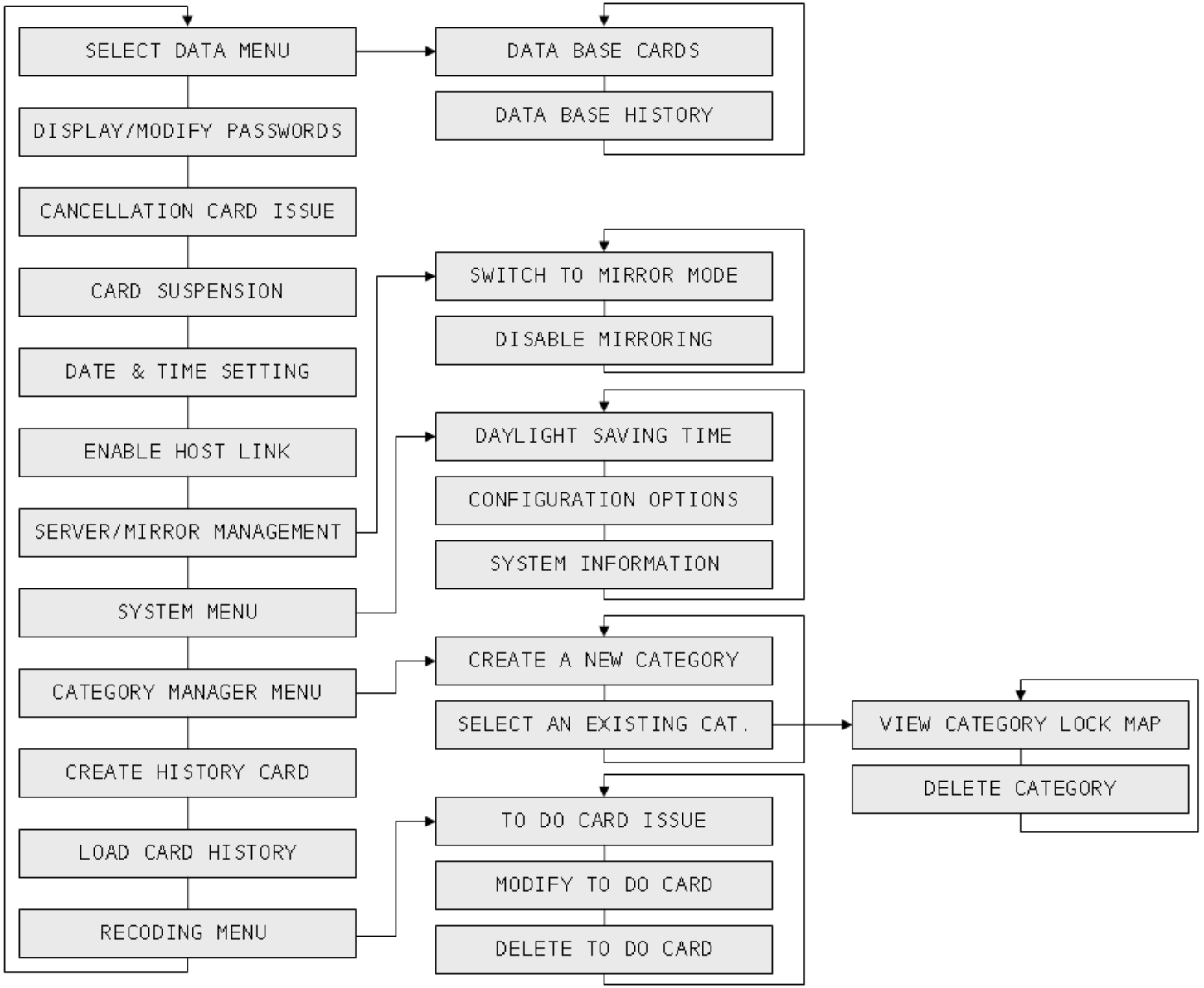
ENCODER MAIN MENU

This special menu allows several functions to be performed, depending on operator hierarchy.

To access this menu, once logged in Encoder Mode, press

, navigate through its voices with *and confirm your choice with* ENTER.

ENCODER MODE MENU



SELECT DATA MENU

SELECT DATA MENU
DISPLAY/MODIFY PASSWORDS
CANCELLATION CARD ISSUE
CARD SUSPENSION
DATE & TIME SETTING
ENABLE HOST LINK
SERVER/MIRROR MANAGEMENT
SYSTEM MENU
CATEGORY MANAGER MENU
CREATE HISTORY CARD
LOAD CARD HISTORY
RECODING MENU

DATA BASE CARDS
DATA BASE HISTORY

TIP

From the **Input Form**, search is possible only on the **active cards** (cards that are not expired nor future).

ENCODER MODE MENU

SEARCHING FOR CARDS

This kind of search is possible from the **Select Data Menu** or from the **Input Form**.

A

```
CARD TYPE
      ALL
NAME

FOR     (1)

CARD SERIAL NR.
                0
OPERATOR CARD NR
                0

OPERATOR TYPE
      ALL
```

Enter in the **Select Data Menu**, then into the **Data Base Cards**, each time by pressing [ENTER]. The search criteria for cards are:

- Card Type: search for a single type (e.g. guest) or between all types;
- Name: it's also possible to search a single part of the name (e.g. typing AR, the system will find ARnold, mARia and so on);
- For: to search the cards issued for a room or a zone;
- Card Serial Number: card with a specified number of issuing;
- Operator Card Nr: cards issued by the specified Operator Card;
- Operator Type: cards issued by Encoder, PMS-Host or both (ALL).

The search function can have more than one criterion at a time, considering them in logical AND. Press [ENTER] to start the search or [ESC] to quit. If more than one card fit the criteria, the list of results can be scrolled by pressing [↘] .

B

```
GUEST FOR?101
DAYS            1
#   1       NAME
POPEYE
```

Search is also possible from the **Input Form** only by room number:

- Enter desired room number;
- Press [↘] to start search. If a card is found, a "?" near the room number indicates that you are in search mode.

SEARCHING FOR HISTORY OF OPERATIONS

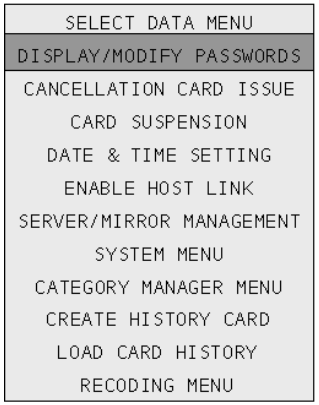
This kind of search is possible from the **Data Base History** menu only.

```
OPERATION
      ALL
CARD SERIAL NR.
                0
DEVICE NUMBER
                0
DEVICE TYPE
      ALL
OPERATOR CARD NR
                0
OPERATOR TYPE
      ALL
OPER. [DD/MM/YY]
            /  /
```

The search criteria for history of operations are:

- Operation Type: search for operations depending on their kind (e.g. login, logout, issue or cancellation of different kinds of cards, maintenance);
- Device Type and Number: search for operations done by a specified kind of devices (server, mirror, client, HHI, special lock or all) or by a single device identified by a specified ID number;
- Operator Type and Number: search for operations done by Encoder, PMS-Host or both (ALL), or by a specified operator card;
- Operations sorted by date.

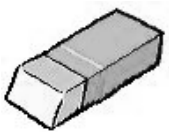
DISPLAY / MODIFY PASSWORDS



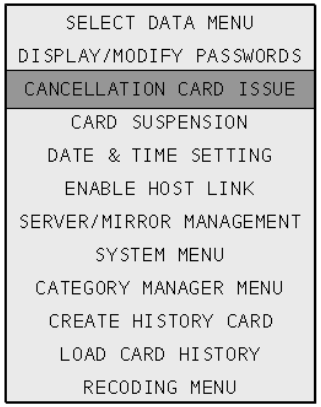
MODIFY PASSWORDS

Enables the users to change their own password, or the system manager to change the password of other operators. Steps are as follows:

- from the Input Form approach your own operator card or search for an operator;
- press ;
- press and select Display / Modify Passwords (the card in zoom mode will be displayed); change the password.

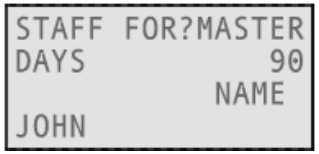


CANCELLATION CARD ISSUE



On each lock, there is a black list where it is possible to memorize a certain number of guest, staff, operator or emergency cards, so that they are then barred from entering the room.

CREATING A CANCELLATION CARD



- Approach the card to be inserted into the black list to the tag reader; alternatively, you can search for that card from the Input Form: navigate with to Staff For, then press until you visualize the card you want to cancel;
- press ;
- select Cancellation Card Issue (the card in zoom mode will be displayed);
- press to confirm;
- write the Cancellation Card by approaching a virgin card to the encoder;
- keep it close to all the locks: the desired card has now been inserted into the black list.

BLACK LIST CAPACITY:

- Normal lock: up to 150 staff or operator cards (guest cards are disabled by passing a new one);
- Common lock: up to 150 staff, operator or guest cards.

Note: on wireless locks, it is possible to update the black list by remote.

ENCODER MODE MENU

CARD SUSPENSION

SELECT DATA MENU
DISPLAY/MODIFY PASSWORDS
CANCELLATION CARD ISSUE
CARD SUSPENSION
DATE & TIME SETTING
ENABLE HOST LINK
SERVER/MIRROR MANAGEMENT
SYSTEM MENU
CATEGORY MANAGER MENU
CREATE HISTORY CARD
LOAD CARD HISTORY
RECODING MENU

This function, active only for cards for which has been set the validation, permits the suspension of the card's validity for a certain period of time.

Put upon the tag reader a card with validation and press [MENU], then select Card Suspension.

DATE & TIME SETTINGS

SELECT DATA MENU
DISPLAY/MODIFY PASSWORDS
CANCELLATION CARD ISSUE
CARD SUSPENSION
DATE & TIME SETTING
ENABLE HOST LINK
SERVER/MIRROR MANAGEMENT
SYSTEM MENU
CATEGORY MANAGER MENU
CREATE HISTORY CARD
LOAD CARD HISTORY
RECODING MENU

CURRENT WEEKDAY
MONDAY
CURR. [DD/MM/YY]
26/01/09
CURR.TIME[HH:MM]
16:47

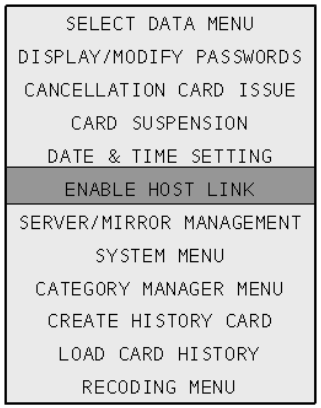
To set Date and Time, press [MENU], then select Date & Time Settings.

In this frame you can set the current date and time; if you change the current date, the system automatically updates the weekday (it is not possible to directly modify the weekday).

Whenever you modify the system date and time, all locks must be synchronized.

ENCODER MODE MENU

HOST LINK



This function allows to enable/disable the PMS communication.

WHY TO INTERFACE WITH PMS

The interface is able to connect the encoding station with the Hotel Management System Computer allowing the issuing of guest cards or duplicates of issued guest cards.
The advantage of an interface system is to avoid double check-in data input, in order to achieve great efficiency in operations and giving no risk of data incongruence between the two systems.

HOW TO INTERFACE WITH PMS

The connection between the interface and the PMS is standard:

Serial RS232

PMS is directly connected to the ESIGNO Mobile by a serial cable without any interface controller; the link is enabled/disabled selecting Enable Host Link after pressing

.

Whether the connection is enabled or not, it is visible on the screen when the encoder is in standby:

- #000dH00: link disabled;
- #000eH00: link enabled.

THE COMMUNICATION PROTOCOL

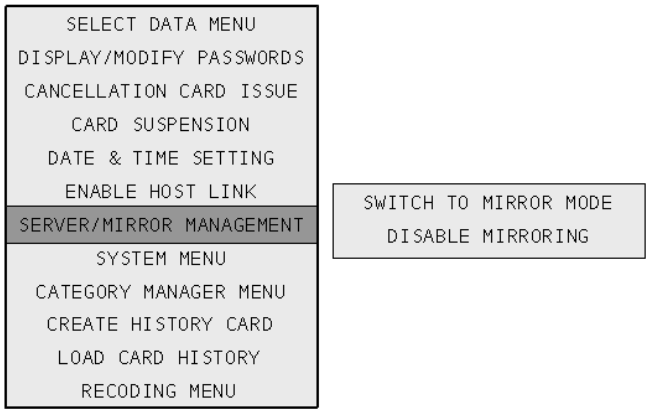
The standard CISA protocol describes the messages that the Hotel Management System Computer should send for making a card and the response that CISA sends back. The basic data sent by PMS are:

- room number;
- guest name;
- date and time for the check-in;
- date and time for the check-out;
- number of copies to issue.

To issue cards from the PMS, the encoder must be in an idle state.

ENCODER MODE MENU

SERVER / MIRROR MANAGEMENT



TIP

In case of Mirror device malfunction, it is possible to disable it, and re-enable it in a second moment, using the Enable Mirroring function.

ENCODER MODE MENU

The Mirror is a device whose memory and functionality are exactly identical to Server's: therefore, with Mirror device, it is possible to do the same operations you can do with Server.
During the creation of the plant you can choose to have one or more Mirror devices: this is useful if you have more than one place where you issue and write cards (for example if you have more than one reception in the hotel).

SWITCH TO MIRROR / SERVER MODE

The ESIGNO Mobile can work in both Server and Mirror mode.
To switch the encoder from one mode to the other:

- press MENU;
- select Server/Mirror Management by pressing ENTER ;
- select Switch to Mirror (Server) Mode. .

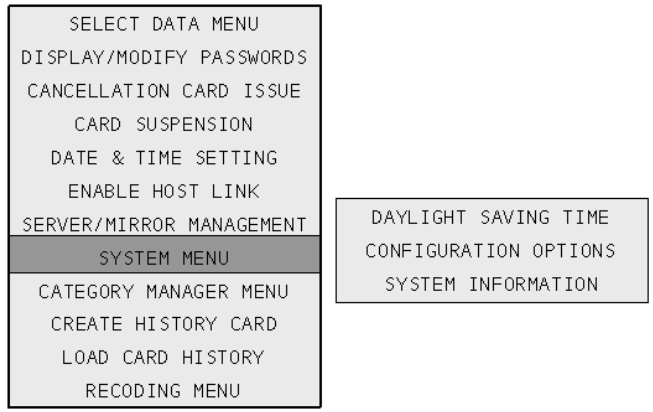
ENABLE MIRRORING MODE

To enable/disable mirroring mode:

- press MENU;
- select Server/Mirror Management by pressing ENTER ;
- select Enable (Disable) Mirroring.

When a plant contains a Mirror device, mirroring is automatically enabled in the Server.

SYSTEM MENU (1)



TIP

For Italy and most of the EEC country, the time change usually happens on the last Sunday of March from 2.00 to 3.00 am and on the last Sunday of October from 3.00 to 2.00 am.

ENCODER MODE MENU

DAYLIGHT SAVING TIME

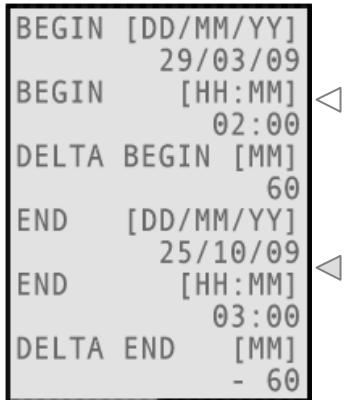
Locks and encoding station work with the actual time; regarding daylight saving time, they are able to automatically change the time for 10 years in advance, provided they have the proper DST information.
Therefore, the encoder contains 10 records, one for each year to come. It is possible to edit any record from 0 to 9 (10 years); once a record is expired, it will be automatically deleted and the table will be shifted from top to bottom.

1

To change the DST settings, press

, navigate into the menu with and select System Menu and then Daylight Saving Time by pressing ENTER.
Choose the record to be modified by typing the correspondent ID.

2



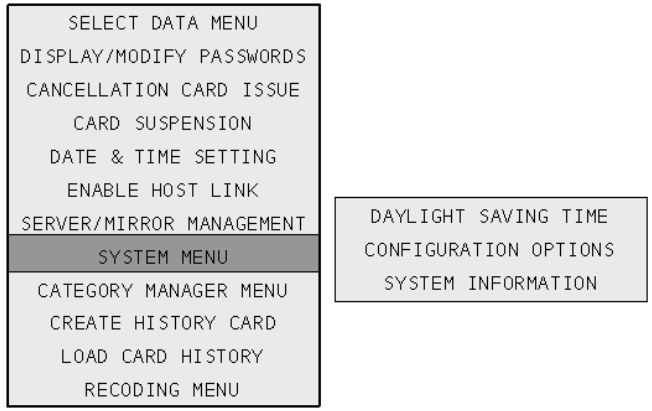
Set the date and time of the beginning of the DST, then the time shift which has to occur (a positive number *n* represents an addiction of *n* minutes)

Set the date and time of the end of the DST, then the time shift that has to occur (a negative number *n* represents a subtraction of *n* minutes). To insert this value, type *n* and then "-".

NOTES

- If the encoding station does not have DST tables, you will see a warning message when logging in to the encoding station.
- If the lock is out of the DST tables, it introduces a delta of an hour in advance, so that the cards will be valid 1 hour in advance remaining in solar time.
- In case your country does not have DST, there will be only one record, with begin and end in 2051, avoiding the lock to introduce deltas.

SYSTEM MENU (2)



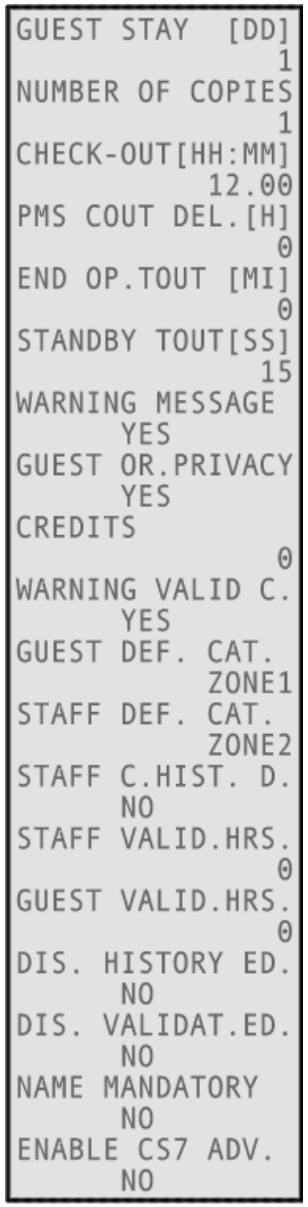
TIP

The Configuration Options menu lets you modify the defaults parameters for cards issuing.

ENCODER MODE MENU

CONFIGURATION OPTIONS

To access this menu, press , navigate into the menu with and select System Menu and then Configuration Options by pressing ENTER.



These are the default values for guest cards issue: guest stay duration, number of copies to be issued and the check-out time.

Delay added to end of validity time sent by the PMS to the encoder.

After being idle for this time period, the system goes into standby mode: it's now necessary to login with operator card (0 = no timeout).

After being idle for this time period, the system ends the operation (e.g. pw input) and returns to the card issuing menu (0 = no timeout).

Enable this warning message to be informed that the room you are creating a card for is busy.

Setting this value, you can decide whether a newly issued guest card has the Override Privacy function or not.

This is the number of credits awarded by default to each guest card.

Enable this warning message to be informed that the card you are creating has already been written and is still valid.

These are the category of utility doors you want to allow access to by default to all guest and staff cards, respectively.

After enabling this field, the staff cards will have history on board by default.

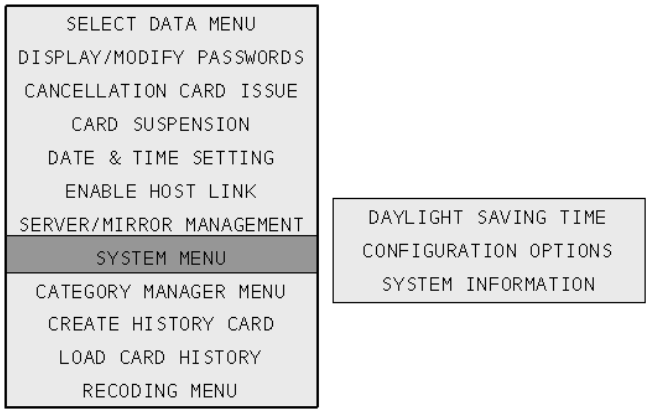
Type here validation hours for staff and guest cards repectively.

Disable history and validation options editing when issuing cards.

Enabling this field, it will be mandatory to type the user's name in the moment the card is issued.

Enabling this field, it is possible to use the CS7 card (which is faster to read and has more memory, compared to a CS5 card) additional features, like the extended keyplan. This feature works only if the firmware installed on the locks is up to date with that on the encoder.

SYSTEM MENU (3)

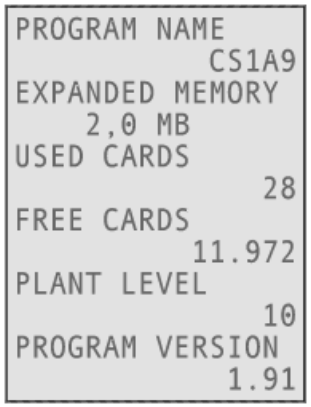


TIP

The System Information menu gives you information about the encoding station software version, memory size and cards database occupation.

SYSTEM INFORMATION

To access this menu, press MENU, navigate into the menu with and select System Menu and then System Information by pressing ENTER.



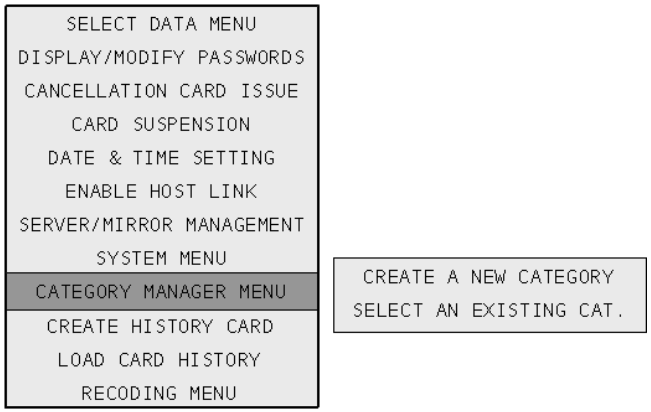
◁ Here you can see the name of the firmware installed on your encoder; at the bottom, the program version is displayed.

◁ This is the balance of used and free to use cards for your plant (depends on the expanded memory of the encoder).

◁ This value depends on the technology the plant is based on.

ENCODER MODE MENU

CATEGORY MANAGER MENU (1)



TIP

This menu allows the creation of new groups of utility doors called **categories**.

ENCODER MODE MENU

CREATE A NEW CATEGORY

To access this menu, press MENU*, navigate into the menu with* ↕ *and select Category Manager Menu and then Create a New Category by pressing* ENTER.

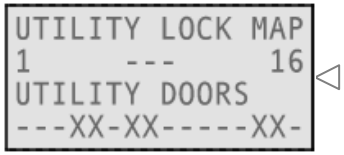
1

Type here the minimum hierarchic level an operator must have to be allowed to use this category; this parameter can be used to create protected categories that only high hierarchy operators can use.
Type here the name of the category and press ENTER.

2

Here you have to type the number of the utility you want to manage, considering that the system will visualize utilities in groups of 16 (e.g. typing a random number between 1 and 16, you can manage all the first 16 utilities, then 17 ÷ 32, 33 ÷ 48 and so on).

3

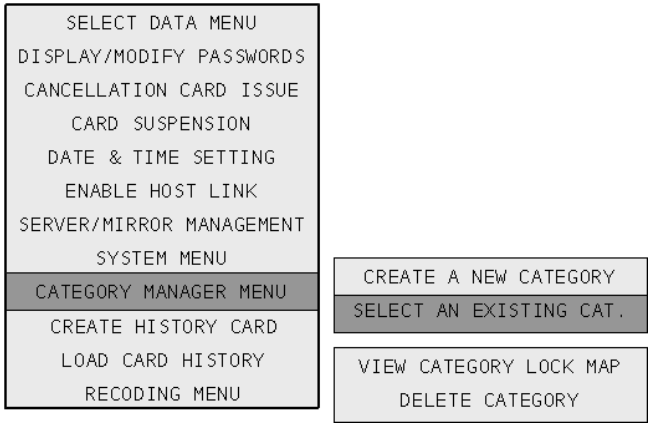


Move with → *to select from the utility list and* ↕ *to select (X) or unselect (-) the door. After having completed the utility pattern according to your needs press* ESC.

4

With ↕ *select whether you want to save the category you have just created or not. Now you will automatically step back to the Category Manager menu.*

CATEGORY MANAGER MENU (2)



TIP

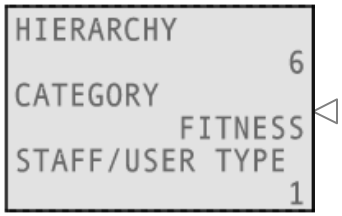
From this menu it is possible to choose an existing category and delete it, print it or view its utility lock map.

ENCODER MODE MENU

SELECT AN EXISTING CATEGORY

To access this menu, press , navigate into the menu with and select Category Manager Menu and then Select an Existing Category by pressing .

1

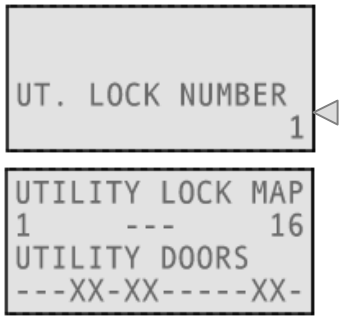


Select the category you want to manage, using and , then press .
Now choose one of the following functions: View Category Lock Map or Delete Category.

VIEW CATEGORY LOCK MAP

The system shows the utility pattern of the selected category. This pattern cannot be edited after creation.

2a

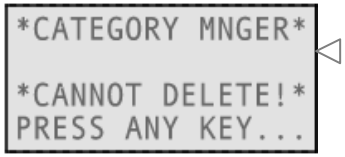


Type here the number of the utility you want to see, considering that the system will visualize utilities in groups of 16 (e.g. typing a random number between 1 and 16, you can see all the first 16 utilities, then 17 - 32, 33 - 48 and so on).

DELETE CATEGORY

The system cancels the selected category.

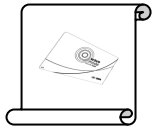
2b



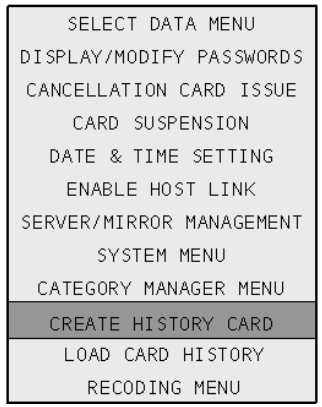
This function can be used only:

- if no active card is using the selected category;
- if the category has not been defined as default category for guest or staff cards.

Otherwise, this message will be prompted.

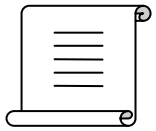


CREATE HISTORY CARD

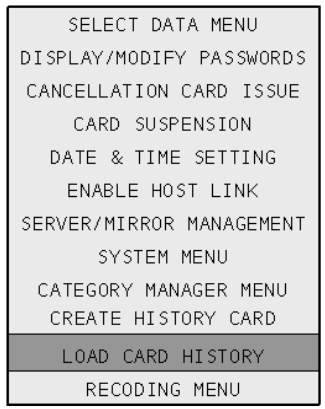


It's possible to create a special card that, once presented to a lock, can download its whole history.
To do this, press MENU, navigate into the menu with and select Create History Card by pressing ENTER. The encoder will ask you to present a card to be written.

Once the history card has been written, you can present it to the reader of the lock: in this way history data will be written on the card. When this operation is completed, the lock will simultaneously display red and green lights.

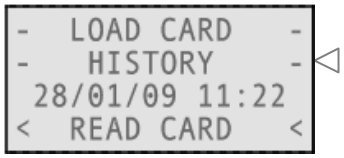


LOAD CARD HISTORY



In order to visualize data, you have to:

- press MENU and select Load Card History by pressing ENTER;



◁ The encoder will ask you the card to be read.

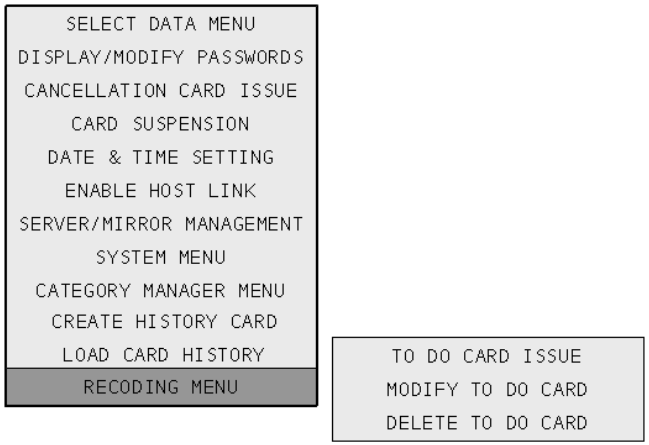
- present the card with history data on board to the encoder;
  if the card has some data stored on its memory, they will be transferred into the encoder and shown on the display;
  if the card contains no data, an error message will be shown.

Notes:

- a history card can be used just once; to use it again, you have to create a new one.
- on wireless locks, it is possible to perform this operation by remote.

ENCODER MODE MENU

RECODING MENU



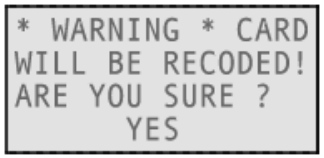
The **recoding function** consists in the possibility of changing parameters of already issued staff or user cards. This function is not active by default: in fact, the recoding menu is accessible only if during the initialization of the plant it has been enabled.
It is possible to recode a staff or user card in two different ways:

- searching for a card in the cards database (Select Data Menu) and selecting it;
- presenting the card you want to recode to the tag reader.

Then, press

, navigate into the menu with and select Recoding Menu and then **To Do Card Issue**, by pressing

: now you are entered in the menu (identical to the staff card issue one) where you can change the parameters of the selected staff card.
In this way you will send the recoding command to the **special lock**, configured as validator, with the recoding function active (e.g. the hotel main entrance). When the staff operator with that specific card will present it on the main entrance reader, the parameters of the card will be changed in compliance with the instructions given by the recoding command.
Although the recoding command has been already sent, it is possible to change or delete it before it arrives to the card by accesing the **Modify To Do Card** and the **Delete To Do Card** menu respectively.
Once the recoding command has been sent to the special door, if you read the card with the tag reader before it has been recoded by the validator, the encoder will show you a warning message.



Choosing Yes, the recoding command will be sent immediately to the card through the tag reader; selecting No, the card will be recoded when it will be read by the special lock reader.

ENCODER MODE MENU

HHI MODE: ESIGNO
LOCK AND WALL READER

The eSIGNO Mobile in HHI mode allows the operator to communicate with the electronic devices inside the system (locks, wall readers and E-cylinders).

The connection with an eSIGNO lock or wall reader can be obtained providing the eSIGNO Mobile in HHI mode with the eSIGNO Mouse.

Thanks to this connection it is possible:

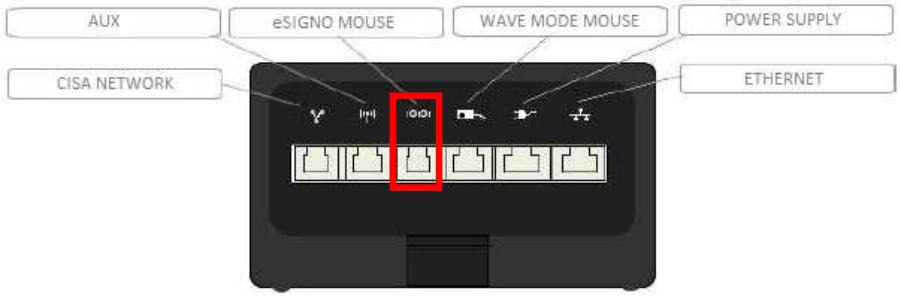
- to download firmware to the device;
- to initialize and synchronize the device;
- to manage the device's memory (history events, lock info, settings);
- to set autoprograms on the device;
- to change the device's parameters.

Alternatively, communication between eSIGNO Mobile and eSIGNO locks or wall readers can be achieved by using Service Cards (see paragraph below).

HHI MODE
INTRODUCTION

COMMUNICATION BETWEEN HHI AND eSIGNO LOCK OR WALL READER

To communicate with an eSIGNO device (lock or wall reader), connect the eSIGNO mouse to the proper slot on the eSIGNO Mobile.



It is possible to understand if the eSIGNO mouse is correctly connected directly from the eSIGNO Mobile's screen:

```
HHI          #000
 26/03/09 10:27
     DISPLAY
      DATA
```

The eSIGNO mouse is not connected to the eSIGNO Mobile.

```
HHI [....]   #000
 26/03/09 10:27
     DISPLAY
      DATA
```

The eSIGNO mouse is correctly connected to the eSIGNO Mobile (see [....] on the first line).

To obtain the actual communication between the eSIGNO device (lock or wall reader) and the HHI, the eSIGNO mouse has to be hung on the device.

```
HHI [LINK]   #000
 26/03/09 10:27
     DISPLAY
      DATA
```

The connection between eSIGNO device and HHI is on (see [LINK] on the first line).

When communication has been established, the eSIGNO device remains turned on as long as the eSIGNO mouse is maintained in front of its reader. From this moment on, it is possible to use the dedicated short cut keys on the eSIGNO Mobile to perform several operations.

```
HHI [BOOT]   #000
 26/03/09 10:27
     DISPLAY
      DATA
```

Note: upon connection, if the eSIGNO Mobile detects that the device has no compatible eSIGNO firmware, this message shows on its display (see [BOOT] on the first line).

SHORT CUT KEYS

HHI MODE INTRODUCTION

LOCK SYNCHRONIZATION

The HHI will send to the lock the real time and the daylight saving time tables.
After synchronizing, the lock gives 2 green lights.

INFORMATION

```
--    INFO    --

LOCK NAME
          101
DATE  [DD/MM/YY]
        02/02/09
TIME      [HH:MM]
          11:55
WEEKDAY
     MONDAY
DIFFERENCE [MIN]
                0
LOCKED     G1234
           --X--
DEVICE
    LOCK    #239
HARDWARE TYPE
      M340
BATTERY LEVEL
           [■■■■]
LITH. BATTERY
   CHARGE OK
```

With this function, it is possible to read information from the lock.

This field represents the lock name as in the keyplan; the lock logical number is reported below.

This is the difference between lock time and encoding system time.

These are the kinds of locked cards (banned from opening the lock):

- *G = guest cards;*
- *1, 2, 3, 4 = staff cards type 1, 2, 3, 4.*

In this case type 2 staff cards are locked.

These are the charge levels of the ordinary battery and the lithium backup one.

LOCK HISTORY READ OUT

```
--  HISTORY   --

OPERATIONS
       ALL
```

With this function, it is possible to read a desired number of operations performed on a particular lock, choosing between 10, 25, 50, 100 or ALL. After the read out, data can be either printed on paper or displayed on the HHI. It is possible to read out operations stored in many locks and load them all on the HHI, until the reaching of maximum memory capability (up to 1000 operations).

HHI MODE: E-CYLINDER

The communication between the eSIGNO Mobile in HHI mode and the E-Cylinder doesn't require the use of any mouse: it is accomplished through the issue of Service cards, which must then be presented to the E-Cylinder.

Note: these Service cards can be also used as an alternative way to achieve communication between the eSIGNO Mobile and the eSIGNO lock and wall reader.

HHI MODE INTRODUCTION

COMMUNICATION BETWEEN HHI AND E-CYLINDER

The Service cards used to accomplish the communication between the HHI and the E-Cylinder (or any eSIGNO device in general) can be issued by selecting the proper option in the HHI menu (Service Card Menu).

Then, navigating with , it is possible to choose the type of card to be issued. The different types of Service cards are described in the table below.

CARD TYPE	WHAT IS IT FOR
SYNCHRO	TO SYNCHRONIZE THE DEVICE WITH RESPECT TO THE ENCODER
INIT	TO INITIALIZE THE DEVICE
RESET	TO RESET THE DEVICE
DEVICE INFO	TO DOWNLOAD FROM THE DEVICE ALL THE INFORMATION ABOUT ITS INITIALIZATION AND WORKING STATE
AUTOPROGRAMS	TO MANAGE AUTOPROGRAMS ON THE DEVICE
BATTERY CHANGE	TO CHANGE THE E-CYLINDER BATTERIES (N/A FOR OTHER DEVICES)
MOUNT/DISMOUNT	TO TAKE THE CYLINDER HEAD OFF ITS BODY (N/A FOR OTHER DEVICES)

Once issued, the card must be presented to the device:

- If the operation is being correctly executed, the device gives an orange light; at the end, it will give two green blinks accompanied by two quick beeps;
- If the operation is not possible (e.g. when the device is not initialized), the device gives three red blinks accompanied by two acute beeps (logical error situation);
- If the Service card is taken off the device while the operation is being executed, the device gives one red blink accompanied by one acute beep (physical error situation).

Additional info about Service cards can be found in the Service Card Menu paragraph.

HHI Mode: Wave Mode lock

The connection with a Wave Mode Lock can be done providing the eSIGNO Mobile in HHI mode with the Wave Mode Mouse (shown below), which must be hung up on the Wave Mode electronic lock.

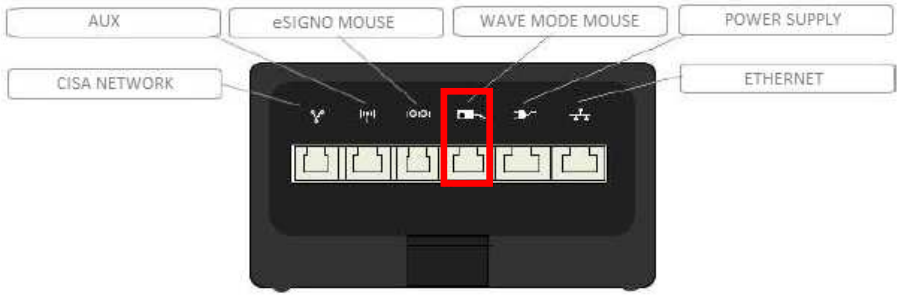
Thanks to this connection it is possible:

- to download firmware to the lock;
- to initialize and synchronize the lock;
- to manage the lock's memory (history events, lock info, settings);
- to set autoprograms on the lock;
- to change the lock's parameters.

HHI Mode Introduction

COMMUNICATION BETWEEN THE HHI AND THE WAVE MODE LOCK

To communicate with a Wave Mode Lock, connect the Wave Mode Mouse to the proper slot on the eSIGNO Mobile.



After the Wave Mode Mouse has been hung on the Wave Mode Lock, the operator must execute an HHI command within 10 seconds; otherwise, the Wave Mode Lock turns off itself and communication can't go on anymore. In this case, it is necessary to remove the Wave Mode Mouse from the mask of the Wave Mode Lock and re-hang it again to repeat the operation. This procedure is necessary only for the first command that the HHI has to send to the Wave Mode Lock; when this first command has been executed correctly (i.e. when the HHI concludes with success the command sent to the lock), it is not necessary to remove the Wave Mode Mouse from the mask of the lock for another command, because now HHI has established a continue communication with it: every other command sent from HHI to the lock will be executed immediately.

Notes: the blinking of the red LED right to the battery one, on the HHI, means that the Wave Mode Mouse has established a stable communication with the Wave Mode Lock. In this way HHI can execute several commands, with the Wave Mode Lock answering immediately.
The Wave Mode Lock is normally turned off, waiting for a Wave Mode Card to read.

- When a Wave Mode Card or the Wave Mode Mouse is placed near the mask of the lock, the electronic unit of the Wave Mode Lock turns on itself and tries to communicate for 5 seconds.
- If the lock doesn't recognize a Wave Mode Card within this time period, it then tries to establish communication with HHI for other 5 seconds.
- If the lock doesn't recognize a command from the HHI within these last 5 seconds, it turns off itself. Otherwise, it will execute it and remain turned on, in order to answer to other HHI commands sent by the operator.
- When the operator removes the Wave Mode Mouse from the mask of the Wave Mode Lock, the lock will turn off itself within 5 seconds.

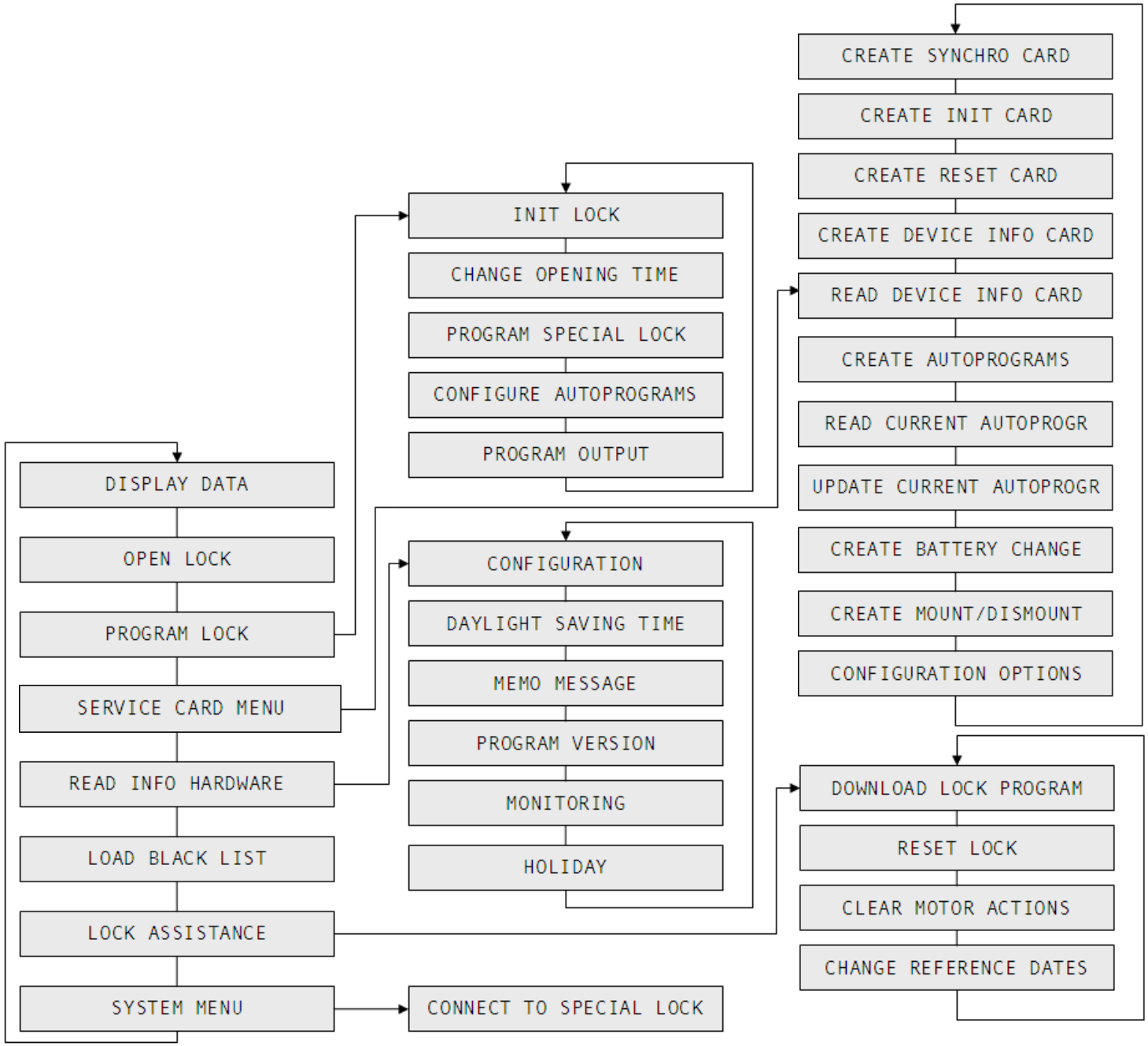
When the communication with the lock has been established, it is possible to use the dedicated short cut keys to perform several operations.

HHI Main Menu

This special menu allows several functions to be performed, depending on operator hierarchy.

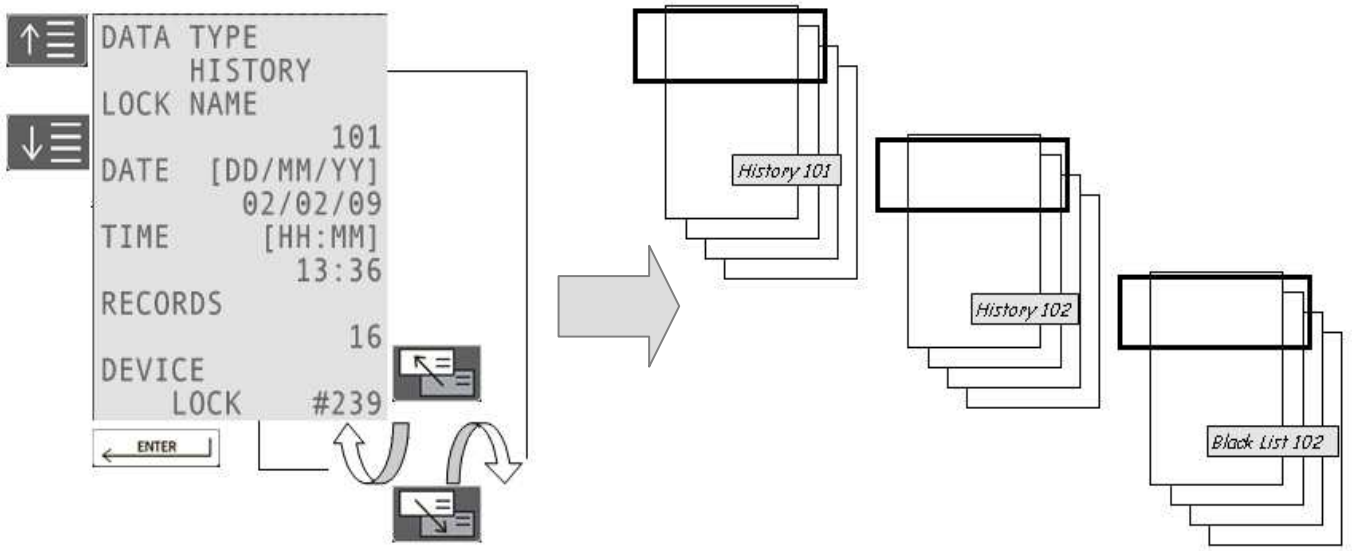
To access this menu, log in HHI Mode; navigate through its options with and confirm your choice with ENTER.

HHI Mode Menu

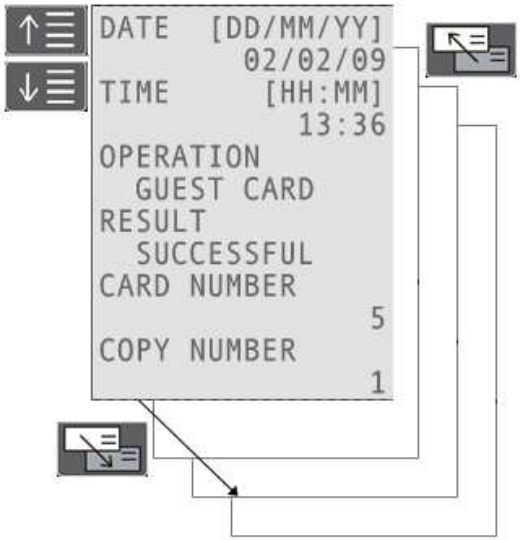


DISPLAY DATA (1)

From this menu, it is possible to display different information read outs, in particular the history and black list of different locks. Data descriptors start from the most recent to the older one; each descriptor consists in a set of records.



HISTORY DISPLAY DATA



It will display the operations performed on the lock starting from the last one.

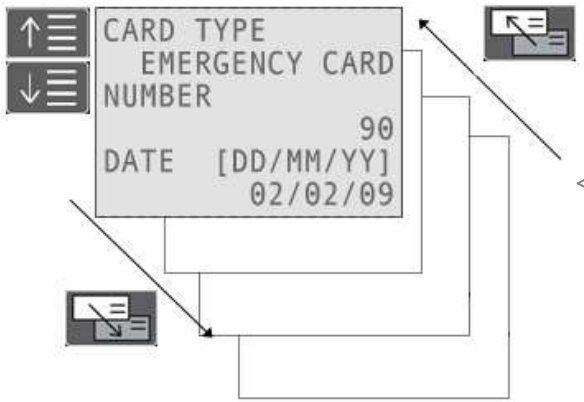
◁ This is the type of operation; below is its result

◁ Here is the identifier of the card.

HHI MODE MENU

DISPLAY DATA (2)

BLACK LIST DISPLAY DATA



It will display the cancelled cards on the lock, i.e. the cards in the lock black list.

◁ Beginning of card validity

OPEN LOCK

Selecting this option of the menu, the lock connected to the HHI will be opened.
It is important to note that the lock has to be connected to the HHI before it is possible to open it; the connection can be obtained by selecting the System Menu and then the Connect to Special Lock voice.

Note: on wireless locks, it is possible to perform this operation by remote.

HHI MODE MENU

PROGRAM LOCK (1)

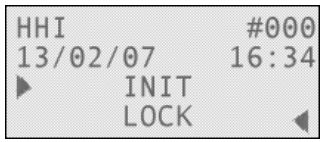
INITIALIZE LOCK

Each door needs to be initialized with a specific number and with specific parameters.

1

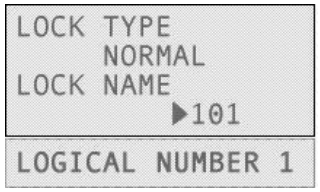
To initialize the lock press , then choose Program Lock by pressing ENTER.

2



Select the Init Lock option by pressing ENTER.
Note: if the lock is already initialised, you have to reset it before re-initialising it (Reset Lock option in Lock Assistance menu).

3



Type the number you want to assign to the door (e.g. 101), then press .
Alternatively, simply press to navigate through the available lock numbers.
By pressing you can visualize the logical number assigned to the door.
To confirm your choice and begin the initialization, press ENTER.

4

Initializaion data are now being transmitted to the lock.
If the communication is successful, the lock will display a succession of two green, one red and two green blinks.
This procedure will send to the electronic lock, the name, time, groups and daylight savings time.

HHI MODE MENU

PROGRAM LOCK (2)

CHANGE OPENING TIME

From this menu it is possible to set:

- Opening time: this function cannot be used for special locks (see the paragraph below);
- Access time: time period where the door is open after which a delayed close operation is written in the door's history;
- Maximum Motor idle: sets the day delay between last and current motor activations by an Auto Motor On autoprogram;
- Enable Auto-relock: in an engaged lock with Office function active, presenting a card or inserting privacy from the inside acts like a toggle switch for engaging or disengaging the lock.

PROGRAM SPECIAL LOCK

This menu allows you to modify the default values of the specific parameters for special locks.

```
--PRG.SPECLOCK--
OP.TIME [1/100S]
             50
VALUE TO SCALE
              1
REVERSE LED
        NO
OPEN IF OFF-LINE
        YES
HOST POLLING ?
        YES
GATEWAY DEVICE
  SERVER #000
VALID.FUNCTION?
        NO
USE N.C. RELAY?
        NO
```

Opening time of the relay (from 1/100 to 600 seconds).

Using access on payment with credits, this is the value to decrement from the guests credits.

Feature used on Smart systems only.

Specifies what to do if an online special lock goes off line.

These two fields are useful to configure the communication with History Collection Protocol (HCP). If you set No, the special lock sends data via serial cable to the device selected below; by setting Yes, the selected device asks data to the special lock.

It allows you to enable the validator function for this lock (this is possible if recoding function is enabled).

Changing this value permits to invert the logic of contacts into a M306 special lock (which has two contacts, by default a common one and a normally open one).

HHI MODE MENU

PROGRAM LOCK (3)

CONFIGURE AUTOPROGRAMS

This menu allows you to program automatic functions in the specified days and hours.

```
PROGRAM NUMBER
                1
OPERATION
  AUTO-INACTIVE
BEGIN     [HH:MM]
            00:00
END       [HH:MM]
            00:00
WEEKDAYS VALID.
         -------
 GUEST
             --X--
```

You can set up to 15 programs for normal locks and up to 60 programs for special locks.

This is the operation type (see below).

Beginning and end of autoprogram period of validity (with 15 minutes tolerance) and weekdays of validity.

It is possible to lockout several types of cards (Guest, Staff 1, 2, 3, 4).

These are the possible operations:

- *AUTO-OFFICE ON: the lock is always open during the specified time shift;*
- *AUTO-LOCK OUT: it locks out the specified cards (Guest, Staff 1, 2, 3, 4) for the specified time shift;*
- *AUTO-MOTOR ON: this function actives the motor inside the lock for a cycle of 5 sec. It can be useful to prevent motor blocking in particular hostile environment of installation. This autoprogram is regulated by a parameter inside the Change Opening Time menu, called MAX MOT.IDLE [DD]: it permits to set the day delay between last and current motor activations by the autoprogram;*
- *AUTO-INACTIVE: current autoprogram is not configured.*

PROGRAM OUTPUT

```
--PROGR.OUTPUT--

CONFIG.RELAY 1
(NOT INIT.)
```

```
STATUS
    TO INIT
LOCK NAME
          101
LOGICAL NUMBER
                1
LOCK TYPE
     NORMAL
```

This function is available in plants with an installed Multi Input Output device: this is a special device which capable of extending the capacity of a special access control unit, adding up to 48 other special doors. It can be used, for example, for special applications such as elevators.

Pressing ENTER *you can initialize the relay 1.*

Navigating with *you can select a different relay to configure.*

HHI MODE MENU

SERVICE CARD MENU (1)

CREATE SYNCHRO CARD

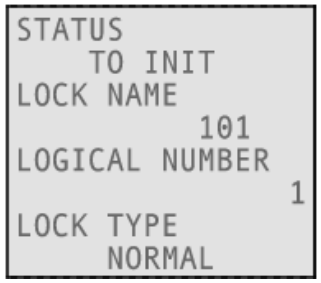
This menu allows the creation of a Synchro service card. With this specific card, it is possible to synchronize the device with respect to the encoder which issued it.
This operation can be performed by issuing a Synchro card and then presenting it to the device; when completed, the device gives two green blinks. Such operation is necessary during the plant start-up or after a device battery change.
In particular, a Synchro card permits the device to acquire from the encoder the following information:

- date and time;
- the daylight saving time settings;
- the holidays settings (which days of the year are considered as holidays).

Note: it is important to present the Synchro card to the device just after issuing it, in order to preserve its function of date and time alignment between device and encoder. After a synchronization has been performed, the Difference [min] field in the device info should contain a 0 value.

CREATE INIT CARD

This menu allows the creation of an Init card. With this specific card, it is possible to initialize a device as (with the name of) one of the locks included in the keyplan.



Navigating with you can select the lock name that the device will assume after the initialization.

Pressing

you will confirm the creation of a device Init card for the selected lock name.

The card must then be presented to the device; when the operation is complete, the device gives two green blinks.
It is necessary to reset the device before presenting this card; If the device is already initialized when presenting an Init card, it returns three red blinks while beeping twice.

CREATE RESET CARD

This menu allows the creation of a Reset card. With this specific card, it is possible to reset a device to an out-of-.factory state. After this operation, the device can be re-initialized and synchronized.

Note; the only card accepted by a device in Reset state is an Init card. To make other cards work, it is necessary to initialize the device.

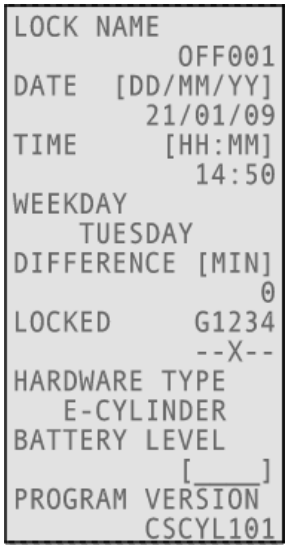
HHI MODE MENU

SERVICE CARD MENU (2)

CREATE DEVICE INFO CARD

This menu allows the creation of a Device Info service card. With this specific card, it is possible to download from the device all the information about its initialization, date and time settings, battery level and software version. This operation can be performed by encoding the card and then presenting it to the device; when the operation is complete, the device gives two green blinks.
To read a Device Info card, it is necessary to use the proper menu (see below).

READ DEVICE INFO CARD



The information downloaded on the Device Info card can be visualized on the encoder's screen by choosing this menu and presenting the card to the encoder.

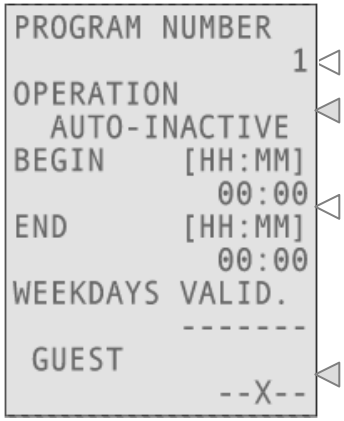
◁ *Time difference between device and encoder.*

◁ Device battery level.

◁ *Firmware version installed on the device.*

CREATE AUTOPROGRAMS

This menu allows you to program automatic functions in the specified days and hours.



◁ *You can set up to 15 programs for normal locks and up to 60 programs for special locks.*

◁ This is the operation type (see below).

◁ *Beginning and end of autoprogram period of validity (with 15 minutes tolerance) and weekdays of validity.*

◁ It is possible to lockout several types of cards (Guest, Staff 1, 2, 3, 4).

HHI MODE MENU

SERVICE CARD MENU (3)

These are the possible operations:

- AUTO-OFFICE ON: the lock is always open during the specified time shift;
- AUTO-LOCK OUT: it locks out the specified cards (Guest, Staff 1, 2, 3, 4) for the specified time shift;
- AUTO-MOTOR ON: this function actives the motor inside the lock for a cycle of 5 sec. It can be useful to prevent motor blocking in particular hostile environment of installation. This autoprogram is regulated by a parameter inside the Change Opening Time menu, called MAX MOT.IDLE [DD]: it permits to set the day delay between last and current motor activations by the autoprogram;
- AUTO-INACTIVE: current autoprogram is not configured.

READ/UPDATE CURRENT AUTOPROGRAMS

The Read Current Autoprograms menu allows you to encode a dedicated service card, to be presented to a device; in this way, all the details about the autoprograms currently residing inside the device will be downloaded into the card. Then, by entering the Update Current Autoprograms menu, the user is asked to present the card to the encoder, which uploads all the autoprograms' details. It is now possible to edit all these details. After confirming the changes, the encoder asks for the card to be re-encoded. By presenting the card to the device again, all the residing autoprograms will be updated.

CREATE BATTERY CHANGE

This menu allows the creation of a Battery Change service card. With this specific card, it is possible to change the cylinder batteries. By presenting the card to the cylinder, the two pins blocking the cylinder head carter become retractable; now, it is possible to take the carter off the cylinder head by using the proper tool and to replace the batteries. After that, the cylinder head carter can be put in place again and blocked by presenting the Battery Change card a second time.

CREATE MOUNT/DISMOUNT

This menu allows the creation of a Mount/Dismount service card. With this specific card, it is possible to take the cylinder head off its body. By presenting the card to the cylinder, the cylinder head becomes integral with the cam; to take the head off the cylinder body, rotate it while pulling; the opposite operation can be done by putting the head back in place and presenting the Mount/Dismount service card a second time.

HHI MODE MENU

CONFIGURATION OPTIONS

This menu allows to set the duration (in days) of the service cards issued through the previous menus (Synchro, Init, Reset, Device Info, Autoprograms, Battery Change, Mount/Dismount). The default duration is 365 days.

READ INFO HARDWARE (1)

It will display detailed lock information.

CONFIGURATION

```
LOGICAL NUMBER
                6
LOCK TYPE
     NORMAL
OFFICE
       NO
TIDY UP
       YES
HIERARCHY
                6
RANGE BEGIN     #
RANGE END       #

UTILITY

0  < GROUPS > 1
-X--------------
48 < GROUPS > 63
----------------
OPENING TIME [S]
                5
STAFF REF. DATE
           /  /
OPER. REF. DATE
           /  /
ACCESS TIME  [S]
               60
ENAB.AUTO-RELOCK
       NO
```

- Logical number and name of the lock.
- Is Office function enabled?
- Is Tidy Up function enabled?
- Minimum HHI operator hierarchy level for the lock.
- For common doors only, it is the range of doors beyond the present one.
- Which groups include this lock?
- This parameter can be set in the Change Opening Time menu.
- Reference date for cards validity (i.e. all valid cards issued before this date open the door no more).
- This parameter can be set in the Change Opening Time menu.
- This parameter can be set in the Change Opening Time menu.

DAYLIGHT SAVING TIME

```
DST RECORD    [#]
                0
DATE  [DD/MM/YY]
          29/03/09
TIME       [HH:MM]
             02:00
DELTA         [MM]
               60
```

There are 20 records (from 0 to 19) to be selected, in order to see the DST periods on the lock. Each one includes:

- Date;
- Time;
- Delta to be applied.

The record 0 is the next change of time date.

HHI MODE MENU

READ INFO HARDWARE (2)

It will display detailed lock information.

MEMO MESSAGE

It reads out a memo message eventually stored on the lock; this message is customizable via the CS9500 Configurator software.

PROGRAM VERSION

It reads out the program release installed on the lock.

MONITORING

```
MOTOR ACT. (BAT)
          1.573
MOTOR COUPLED
        NO
GUEST IN
        NO
SINC. [DD/MM/YY]
        02/02/09
SINC.    [HH:MM]
          13:33
SWITCH ON COUNT
          1.520
MOTOR ACT. COUNT
          1.573
EMER. KEY COUNT
             0
CARD READ. COUNT
           825
CARD LOG.ERR.CNT
            10
CARD PH.ERR.CNT.
            17
DOOR POSITION
      OPEN
```

- Number of motor actions done with the current batteries.
- These fields display if the lock is engaged and if the guest is in the room.
- Date and time of last synchronization.
- Count of times the lock has switched on.
- Number of motor actions done during lock lifetime.
- Number of times that an emergency card has been used on this lock.
- Number of Read Card operations completed successfully.
- Number of logical errors during Read Card operations due, for example, to wrong plant code (the lock gives 3 red blinks).
- Number of physical errors during Read Card operations, due to card malfunctions or human error (lock gives 1 red blink).
- With Door Position Reporting function enabled, this field says if the door is Open or Closed.

HOLIDAY

```
--  INFO HW   --

HOLIDAY REC.[##]
             0
```

In this menu, you have to type first the number of record you want to see. Each record contains an holiday date; these dates can be set only through Smart Software.

HHI MODE MENU

LOAD BLACK LIST

By choosing this option, the list of the cards stored in the lock black list will be loaded; this list can be then visualized on the eSIGNO Mobile display or printed out.

LOCK ASSISTANCE

These functions are reserved for technical assistance.

DOWNLOAD LOCK PROGRAM

To upgrade the software inside the locks to a newer version, or in case of lock software loss, you have to download the program onto the locks. Selecting this function brings you into another menu, where you can select to only download the program, or reset the lock, or reset and download.

RESET LOCK

The lock will be reset.

CLEAR MOTOR ACTIONS

After changing the batteries, it is possible to reset the opening counter, which records the number of openings of the lock, so you can approximately estimate the battery status.

CHANGE REFERENCE DATES

It is possible to invalidate Staff and Operator cards starting from a specified date.

SYSTEM MENU

The System Menu allows to establish a communication with special locks connected in network (online locks).

CONNECTION TO SPECIAL LOCK

Allows you to perform HHI operations on a special lock that is working in network: you must use this option before starting any HHI operation on the online special lock.
In other words, this function has the same role for the online special lock as connecting the HHI cable to a normal lock.
If you want, for example, to read out a history, you have to enter the System Menu, select Connection To Special Lock, choose the lock you want to connect with, and then you can read the history as you normally would in a standard lock.

HHI MODE MENU

NETWORKING

A **network** is a group of devices connected to each other, through Ethernet cables or via wireless.

The most essential network is composed by a eSIGNO Mobile working as Server and a PC; to this configuration several other devices can be added, depending on customer need:

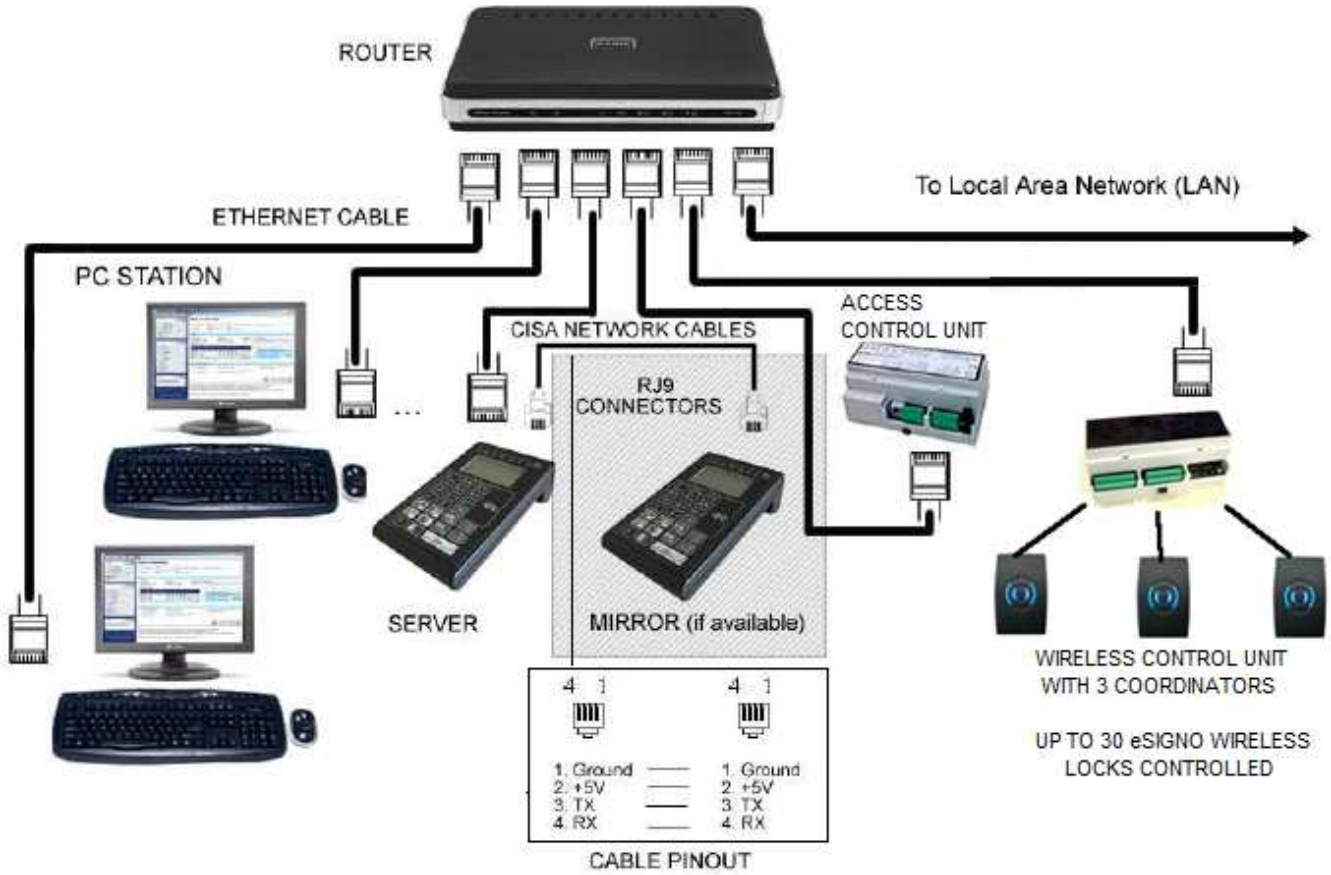
- **Clients**, essentially a number of eSIGNO Mobiles, connected to the network in order to have several independent cards issuing points;
- **Mirror**, an eSIGNO Mobile to backup Server's memory;
- **Special locks** (based on access control units);
- **Wireless Control Units**, each connecting to the system (via wireless) up to 30 eSIGNO locks.

TIP

All the encoding stations share the server's database; however, functionality and user interface of each device are the same.

CONNECTIONS

CONNECTIONS



CONFIGURATION

Here are the steps to configure each device included into the network:

- start the CS9500 Configurator program;
- create or open an existing plant configuration;
- click on Devices and select Server Encoder #00000;
- click on Properties, then select the M305 Hardware Type and the Ethernet Connection Box;
- type the device IP address (if integrating into an existing LAN network, a dedicated range of IP addresses must be reserved). Check that the Subnet Mask matches as well, then start download;
- for the Mirror, select the proper Hardware Type and start download (it will use the same IP address as the server). The connection between Server and Mirror must be through a CISA Network Cable;
- for Special Locks, select the proper Hardware Type and Ethernet settings, then start download;
- for Wireless Control Units, select the proper Ethernet settings and start download. A different IP address must be used for each Special Lock or Wireless Control Unit.

NETWORKING HARDWARE (1)

TIP

It is possible to configure two sub-networks, placed in different physical locations, belonging to the same network and connected through routers and /or a radio link.

CONNECTIONS

SPECIAL LOCKS

The **special access control unit** allows, coupled with a card reader, to control an access point by using a standard actuation device (e.g. electric strike, electric or motorized lock). They can be initialized as standard, common or utility doors. Different access controls like electrical strike doors, elevators or car parks can be controlled **online** with the encoding station, allowing access only to the active cards. Due to the different possible applications and to the hardware used, some of the special lock parameters have been increased:

- black list dimension with 80 positions;
- history of the last 800 operations on the door.

If the special lock is connected online, these added features are available:

- each time the card is approached to the reader, a real time check on the encoding system is performed, and the opening is allowed only if the card is still active in the database;
- all the HHI operations (e.g. history read-out, synchronization) are performed with the HHI directly connected to the network, without moving to the special access control.

The special lock is composed by one **control unit** and up to two **card readers**. The control unit has relay contacts for the output, and the possibility to connect a backup external battery, which can provide power to it and to the actuation device in case of main power supply loss.
There are two possible work modalities for a special lock:

- **stand-alone**: it will work in the same way of a standard CISA lock, with the exception it will activate a relay. You can initialize the lock with the HHI as you do for a normal CISA CS9500 lock (a special cable for communication between HHI and the special lock is necessary);
- **on-line**: it will work on the same network line of the encoding stations. All the HHI operations are performed via network from the HHI, selecting on the HHI menu the special lock you want to connect to instead of moving to the lock itself.

To get the **MAC address** of a Special Lock #00081, view the sticker underneath the device.

NETWORKING HARDWARE (2)

eSIGNO MOBILE M305

To get the **MAC address** of the eSIGNO Mobile, initiate the device in Hardware Setup mode: with the unit powered off, hold any keypad button while pressing power on, until hardware information shows up. The MAC address is also written on a label underneath the eSIGNO Mobile.

MULTI INPUT OUTPUT

The Multi I/O module allows to extend the capacity of the special access control unit, adding from a minimum of 12 up to a maximum of 48 relays (connect together 4 Multi I/O to the same control unit). They can be used for special applications in which is required the control of more than one relay (e.g. lift control panel). The Multi I/O interface is connected to the control unit together with one or more external special readers.

CONNECTIONS

NETWORKING HARDWARE (3)

TIP

To perform wireless field analysis before executing installation and to discover the wireless channels to be associated to a group of eSIGNO Wireless locks in relation with the Wireless Coordinator, a special tool named Wireless Analyser is available.

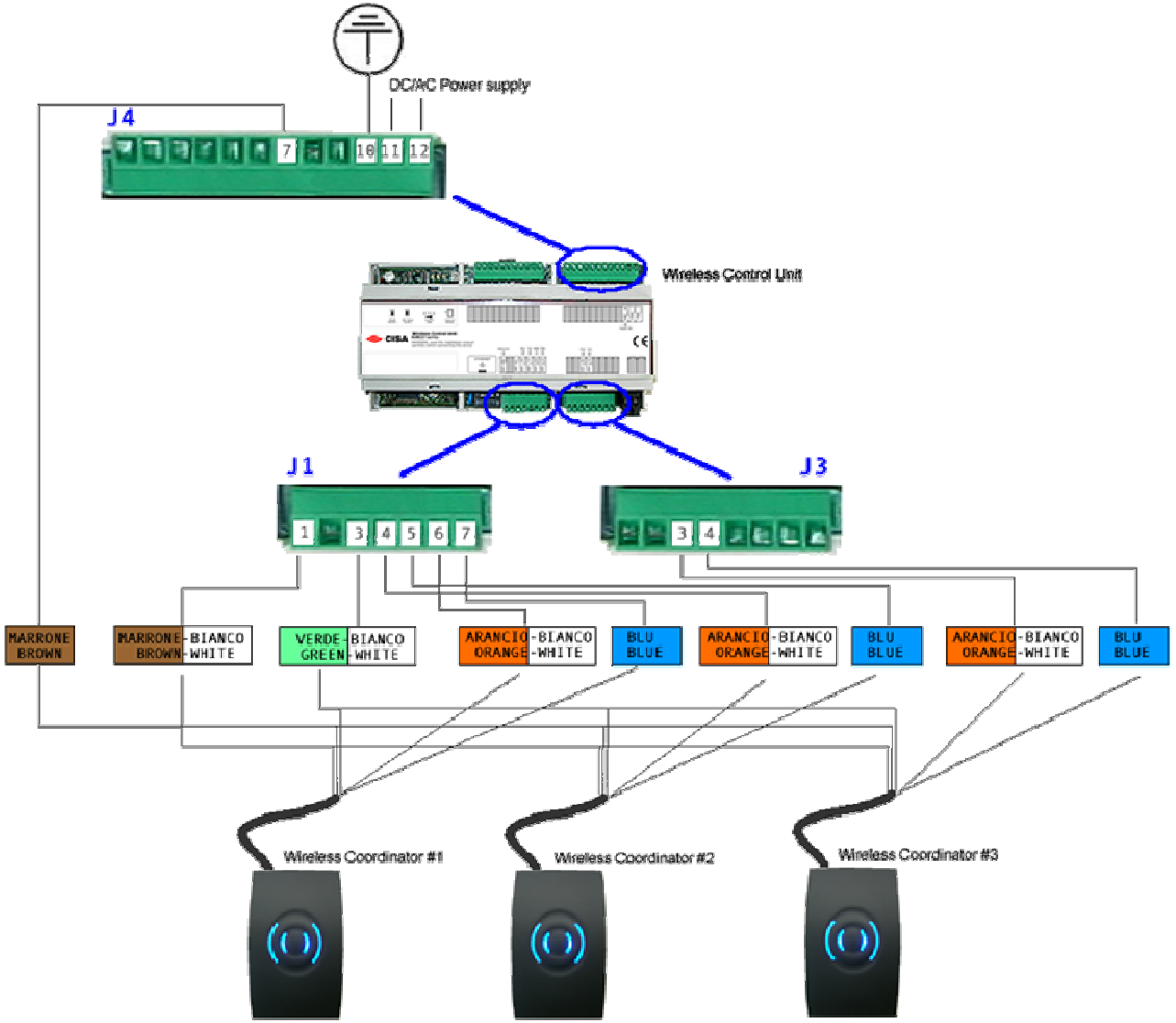
CONNECTIONS

WIRELESS CONTROL UNIT

It links the central station to the eSIGNO Wireless locks (up to 30) and provides the physical connection with up to 3 Wireless Coordinators. It is connected via Ethernet to the LAN network.

WIRELESS COORDINATOR

It provides the radio connection through ZigBee between Wireless Control Unit and the corresponding eSIGNO Wireless locks (up to 10). It is connected to the Wireless Control Unit through a maximum 25 m long cable. Note: Wireless Coordinator is supplied with 10m cable length.



eSIGNO LOCK

BATTERY STATUS

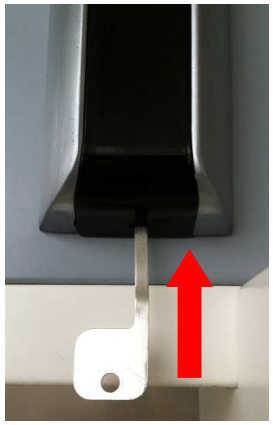
The battery status control can be done using any valid staff card; there are 2 different warning levels:

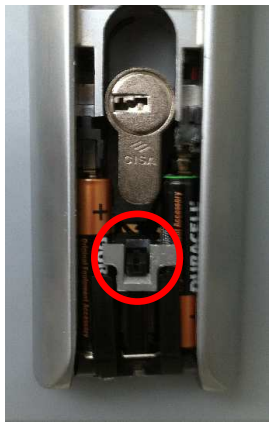
- low battery status: the LED signal gives 3 red + green blinks before lock opening;
- end battery status: the LED signal gives 12 red + green blinks before lock opening.

These warnings are also recorded into lock history as separate events with respect to the openings.

Steps to change batteries:

- with the proper tool, remove the lower plastic cover from the external plate;
- disconnect the batteries holder by pressing the central pin;
- replace the batteries (3 alkaline AAA LR3 type batteries are needed).





EMERGENCY MECHANICAL CYLINDER

The electronic locks always have an emergency mechanical cylinder with variable key bitting.
The cylinder works with 3 different keys (number from 1 to 3):

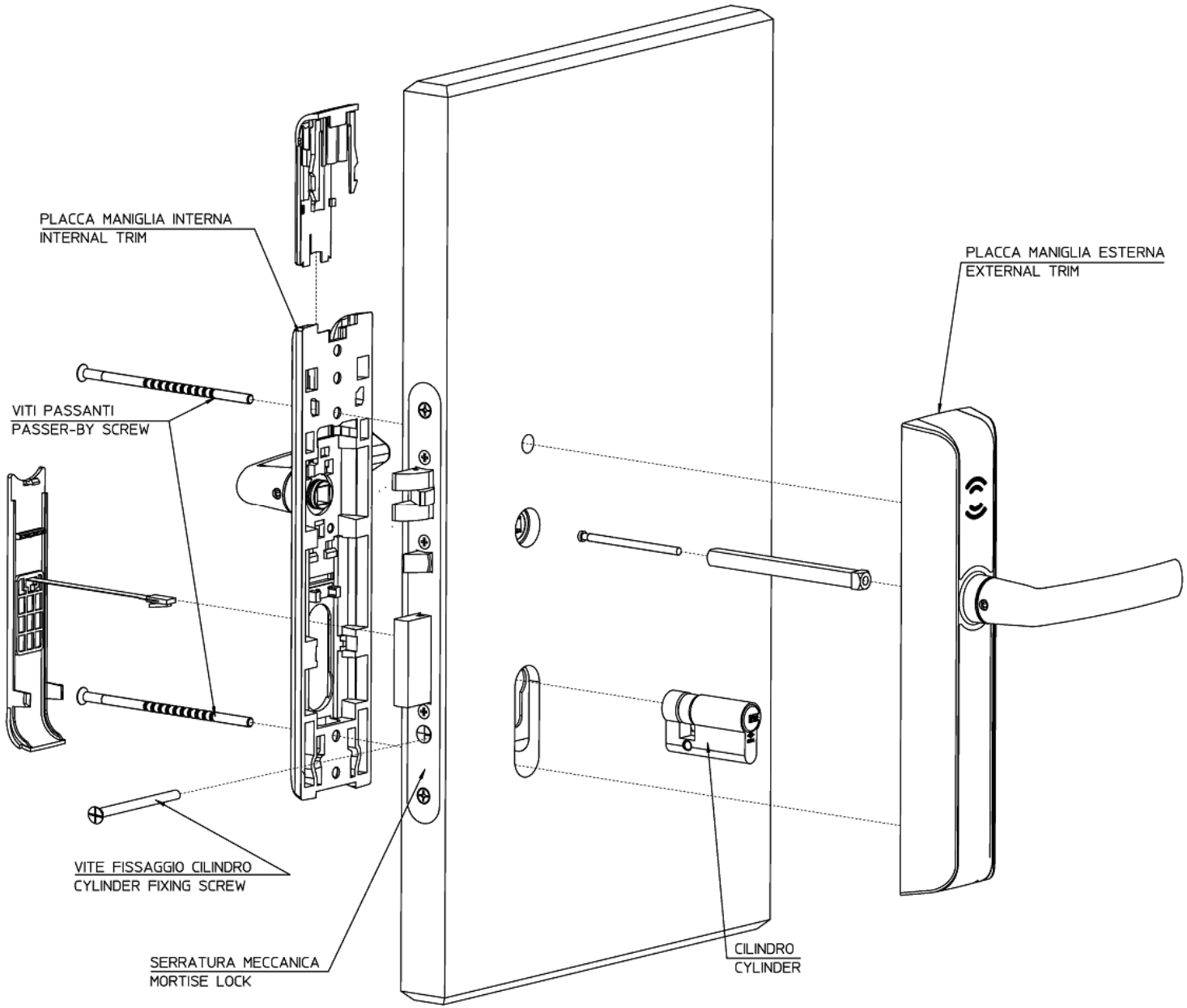
- key number 1 must be used first;
- in case of key number 1 has been lost or has not been considered secure, key number 2 can be used. In this case the use of the key number 1 is blocked;
- in the same way, using key number 3, key number 2 will be disabled.

Independently from the key you are using, follow this procedure:

- expose the mechanical cylinder by removing the lower plastic cover from the external plate, using the proper tool (see figure above);
- insert the mechanical key and turn 360° in the clockwise direction;
- rotate the knob (external handle).

MAINTENANCE
(2)

eSIGNO LOCK INSTALLATION



SERVICE OPERATIONS

eSIGNO E-CYLINDER

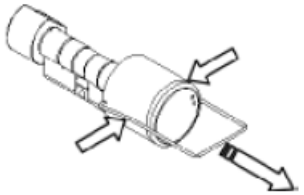
BATTERY STATUS

The battery status control can be done using any valid staff card. In case of low battery status, the LED light signal gives 3 red + green blinks before the opening of the cylinder.
Note: in case of unusable batteries (if they have not been changed since the signals above), after a few openings the cylinder stops reacting to valid cards. To re-activate it, it is necessary to change the batteries by using the external power supply adapter.

Steps to change batteries:

1. Present a Change Battery Service card (issued in HHI mode).
2. The two pins blocking the cylinder head carter are now retractable. With the proper tool, take the carter off the cylinder head.
3. Change batteries (2x lithium 3V CR-2 type); if polarity is correct, the cylinder will beep.
4. Push the two pins and insert the head carter, checking that the pins are in the correct position.
5. Present a Change Battery Service card again. The two pins are now solid.
6. Present a Synchro Service card to synchronize the E-Cylinder once again.

2



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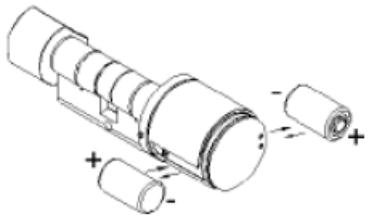

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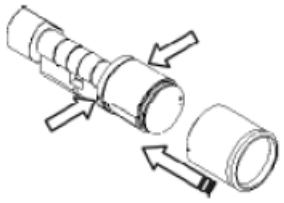
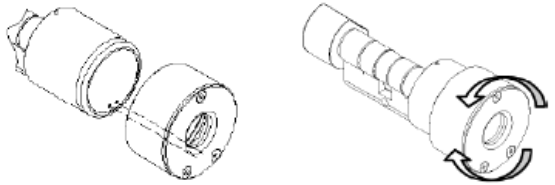


External power supply adapter

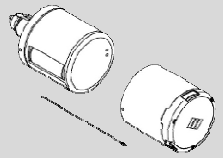
In case the batteries are completely unusable, it is necessary to use the external power supply adapter in order to recuperate the cylinder functionality. To achieve that, insert the adapter, checking that its power supply pins are positioned coherently with the knob's external power supply pins. If necessary, slowly rotate the adapter in order to obtain the pins alignment; if the position is correct and the batteries are depleted, the cylinder beeps once.



MAINTENANCE
(4)

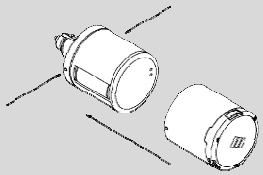
E-CYLINDER INSTALLATION

1. Remove the electronic thumb turn from the package and extract the cover from the electronic thumb turn.

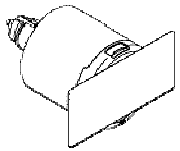


2. Pull out the plastic tag from the housing of either battery located inside the electronic thumb turn.

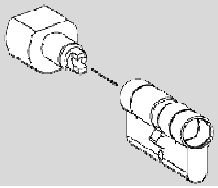
3. Insert the cover on the electronic thumb turn by using the special guides. By pressing the side stops on the thumb turn, complete cover insertion. After completing the operation, check that the side stops come out of the special cover holes.



4. Issue an Init card through the eSIGNO Encoder in HHI mode and present it immediately to the cylinder; keep the card in front of the cylinder until the successful initialization completion signal is received (two beep sounds and 3 green light flashes followed by one red light flash).

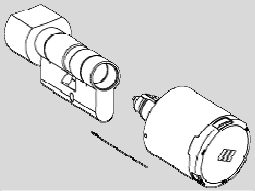


5. Mount the mechanical thumb turn on the cylinder body, by turning and applying a light pressure until you hear it click in.

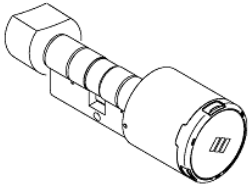


6. Introduce the cylinder body in the door hole, then fix it with the specially supplied screw.

7. Introduce the (previously initialized) electronic thumb turn in the cylinder body already in place in the door, turning until you hear it click in.



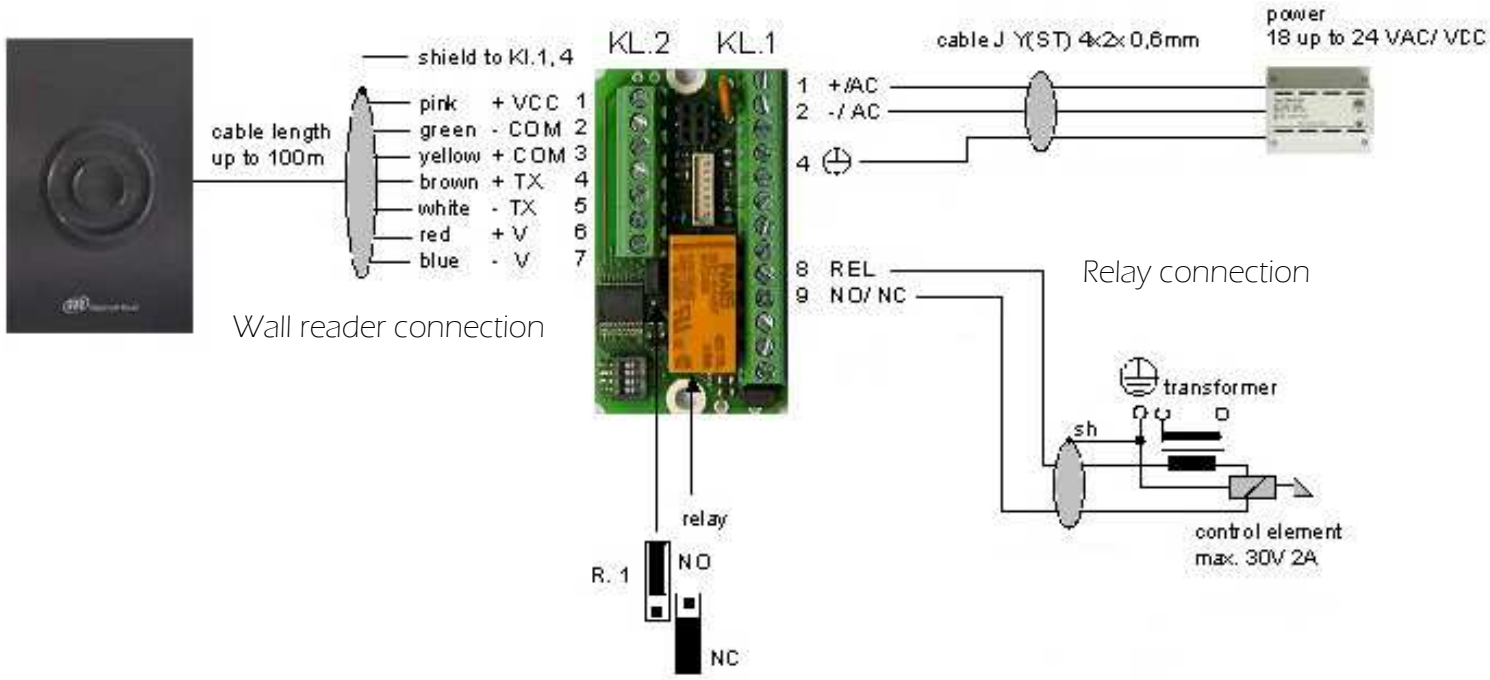
8. The electronic cylinder has now been correctly installed.



SERVICE OPERATIONS

eSIGNO WALL READER

INSTALLATION



In order to obtain the desired behavior of the relay, set the jumper in the correct way

SYNCHRONIZATION

If the wall reader remains without power supply for several hours, it must be synchronized once again in order to work fine. To achieve this, issue a Synchronization Card from the Service Cards Menu of the eSIGNO Mobile in HHI mode and present it to the wall reader. If the card is correctly read, the wall reader gives 2 green and red blinks, together with 2 acute beeps.
Note: when a user card is presented to a not synchronized wall reader, it gives 5 red blinks together with 5 beeps.

WAVE MODE LOCK

BATTERY STATUS

The battery status control can be done using any valid staff card; there are 2 different warning levels:

- low battery status: the LED signal gives 3 red + green blinks before lock opening;
- end battery status: the LED signal gives 12 red + green blinks before lock opening.

These warnings are also recorded into lock history as separate events with respect to the openings.

Steps to change batteries:

With the proper tool, it is possible to remove the batteries holder cover as shown in figure below. 3 alkaline AA LR6 type batteries are needed.

EMERGENCY MECHANICAL CYLINDER

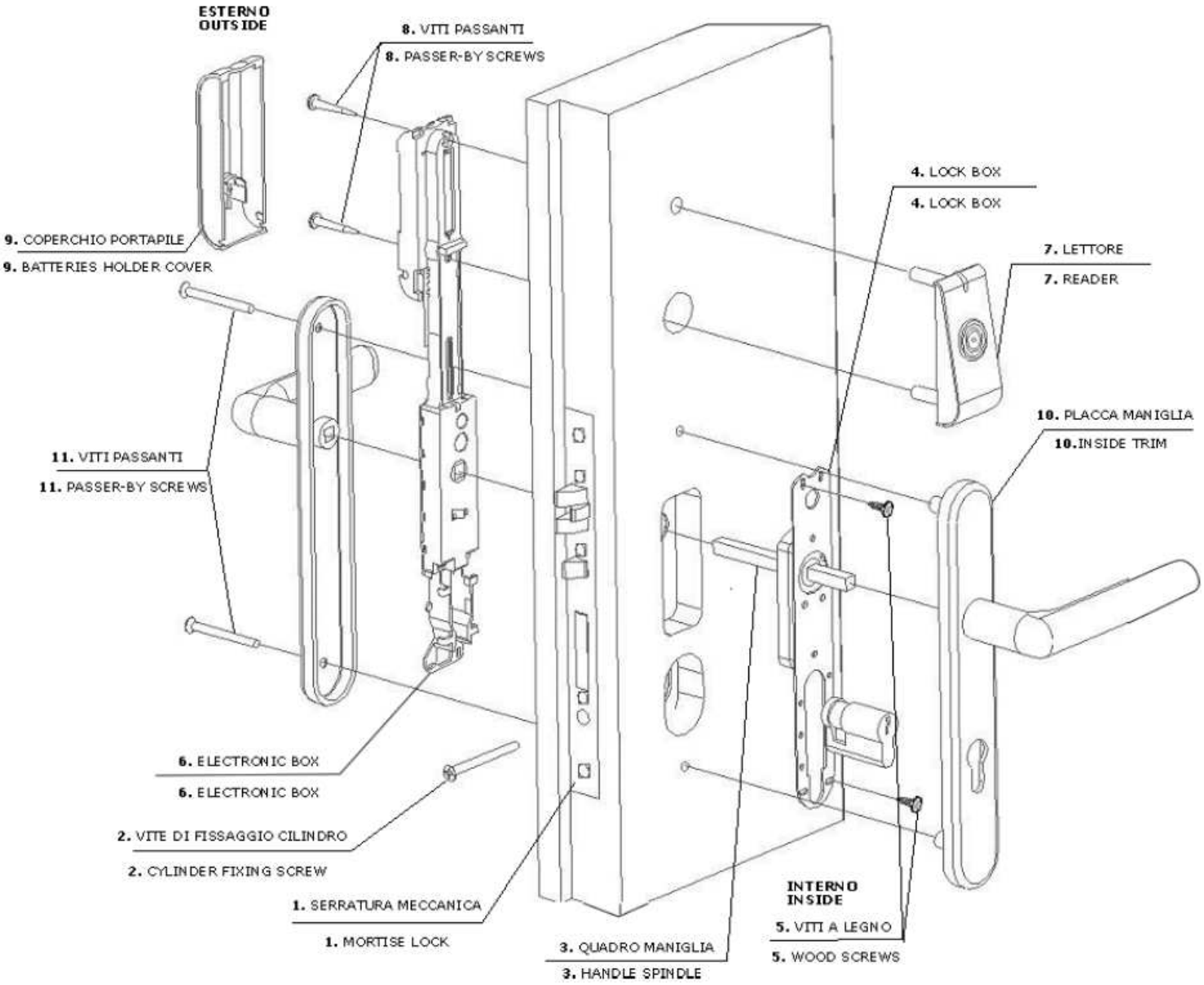
The electronic locks always have an emergency mechanical cylinder with variable key bitting.
The cylinder works with 3 different keys (number from 1 to 3):

- key number 1 must be used first;
- in case of key number 1 has been lost or has not been considered secure, key number 2 can be used. In this case the use of the key number 1 is blocked;
- in the same way, using key number 3, key number 2 will be disabled.

Independently from the key you are using, follow this procedure:

- insert the mechanical key and turn 360° in the clockwise direction;
- rotate the knob (external handle).

WAVE MODE LOCK INSTALLATION



SERVICE OPERATIONS

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